

Supplemental Material for: A multi-stage genome-wide association in breast cancer identifies two novel risk alleles at 1p11.2 and 14q24.1 (*RAD51L1*)

Gilles Thomas¹, Kevin B. Jacobs^{1,2,3}, Peter Kraft⁴, Meredith Yeager^{1,3}, Sholom Wacholder¹, David G. Cox^{4,5}, Susan E. Hankinson⁵, Amy Hutchinson^{1,3}, Zhaoming Wang^{1,3}, Kai Yu¹, Nilanjan Chatterjee¹, Montserrat Garcia-Closas¹, Jesus Gonzalez-Bosquet¹, Ludmila Prokunina-Olsson¹, Nick Orr¹, Walter C. Willett^{5,6}, Graham A. Colditz⁷, Regina G. Ziegler¹, Christine D. Berg⁸, Sandra S. Buys⁹, Catherine A. McCarty¹⁰, Heather Spencer Feigelson¹¹, Eugenia E. Calle¹¹, Michael J. Thun¹¹, Ryan Diver¹¹, Ross Prentice¹², Rebecca Jackson¹³, Charles Kooperberg¹², Rowan Chlebowski¹⁴, Jolanta Lissowska¹⁵, Beata Peplonska¹⁶, Louise A. Brinton¹, Alice Sigurdson¹, Michele Doody¹, Parveen Bhatti¹, Bruce H. Alexander¹⁷, Julie Buring¹⁸, I-Min Lee¹⁸, Lars J Vatten¹⁹, Kristian Hveem¹⁹, Merethe Kumle²⁰, Richard B. Hayes¹, Margaret Tucker¹, Daniela S. Gerhard²¹, Joseph F. Fraumeni, Jr.¹, Robert N. Hoover¹, Stephen J Chanock¹, David J. Hunter^{1,4,5,6,22}

Cancer Genetic Markers of Susceptibility (CGEMS) Breast Cancer Genome-Wide Association Scan

Introduction

This report described the results of a GWAS of breast cancer performed in three stages, designated Stages 1, 2 and 3. In each stage, one or more breast cancer studies were genotyped on common SNP markers. The first stage, comprising the Nurses' Health Study using the Illumina HumanHap550 assay, was previously reported in Hunter et al (*Nature Genetics* 2008)¹. In Stage 2, 33,352 SNPs were chosen and based on most significant findings observed in Stage 1 and genotyped in four independent studies. Similarly, Stage 3 interrogated 24 of the most promising SNPs based on a combined analysis of Stages 1 and 2 on additional samples in one study and in four additional studies. Stages 2 and 3 are novel and thus, the focus of this document.

Stage 1

Study Subjects

The Nurses' Health Study^{2,3} (NHS) is a longitudinal study of 121,700 women enrolled in 1976. The CGEMS case-control study is derived from 32,826 participants who provided a blood sample between 1989 and 1990 and were free of diagnosed breast cancer at blood collection and followed for incident disease until May 2004. Cancer follow-up in the NHS was conducted by personal mailings and searches of the National Death Index. It is estimated that the percentage of true cancers captured by this system is greater than 90%. Permission was requested from all participants diagnosed with cancer to review medical records to confirm the diagnoses and obtain additional information on tumor histology, staging, and other characteristics. All study participants who were menopausal at blood draw with a confirmed diagnosis of invasive breast cancer and had sufficient stored blood available for DNA extraction at the time of case and control selection were included as cases in the CGEMS project. Controls were matched to cases based on age, blood collection variables (time, date, and year of blood collection, as well as recent (<3 months) use of postmenopausal hormones), ethnicity (all cases and controls are self-reported Caucasians), and menopausal status (all cases and controls were menopausal at blood draw).

Genotyping

In stage 1 of CGEMS approximately 528,000 SNPs were successfully genotyped in the breast cancer scan (using the Illumina HumanHap550 chip, Illumina, San Diego, CA) in 1,145 breast cancer patients and an equivalent number of controls (n=1,142)¹. Analysis of nearly 550,000 SNP genotypes per subject provides approximately 90% coverage of common SNPs based on HapMap Phase 2 with minor allele frequency (MAF) greater than 5% in the European population and a linkage disequilibrium coefficient threshold of $r^2 > 0.8$ using the TagZilla program (<http://tagzilla.nci.nih.gov/>)⁴⁻⁶. Quality control metrics included sample completion rate, SNP assay completion rate, removal of duplicate

samples, and <15% admixture of non-European background, which were reported previously¹.

Access to a subset of the individual raw phenotype and genotype data analyzed in the Nurses' Health Study as well as summary CGEMS data are available for scientific research purposes only (<https://caintegrator.nci.nih.gov/cgems>) through a registered access process. Registration by the individual investigator and the supporting institution are required as per the January 25, 2008 NIH Policy on GWAS Data Sharing. The data set for registered users includes genotypes from the Genome-Wide Association Scan (GWAS) and a set of covariates, namely, age (in 5 intervals: <55, 55-59, 60-64, 65-69, 70-74, and >74), family history of cancer (yes/no), and disease phenotype (control, case diagnosed with invasive breast cancer). Access to additional covariate data will be possible through established data sharing policies of NHS (<http://www.channing.harvard.edu/nhs>).

Association Analysis

The primary analysis of the CGEMS breast GWAS study explores the association between a single SNPs and breast cancer susceptibility. This exploration is done one SNP at a time, sequentially for each SNP maintained in the study. The analytic approach assumes no structure to the risk across the 3 possible genotypes at each locus. This approach maintains power to detect recessive or over-dominant alleles at the cost of a small decrease in power relative to a Cochran-Armitage trend test for the detection of alleles with multiplicative risk effect. By maximizing genome coverage with a large number of SNPs and adopting an 'agnostic' approach to the analysis which does not take gene function or prior information on breast cancer or other phenotypes into consideration, we increase the opportunity to pursue different working hypotheses and different regions of interest now and in the future.

Analytic procedure

Each participant is classified dichotomously according to her phenotype at the end of the follow-up period, namely a case diagnosed with invasive breast cancer or a matched control.

Genotypes

In order to maintain high power to detect SNPs that are involved in non-multiplicative models (such as complete recessivity or over-dominance), we provide analyses of the data based on observed genotypes, considering each of the three possible genotype states separately. Accordingly, the analysis uses a statistical test with two degrees of freedom (two phenotypes cross-tabulated with three genotypes) when the rare homozygote genotype is observed more than 15 times (a somewhat arbitrary parameter imposed for numerical reasons). Otherwise, the rare homozygote genotype count is collapsed with the heterozygote genotype count, and a one degree of freedom test is used.

Single SNP statistics

In order to expedite public access to the data, the first-pass analysis of the CGEMS data aims at detecting association of single SNPs with breast cancer susceptibility. Multi-SNP approaches, such as haplotype association, have not yet been fully explored.

Statistical tests.

The characteristics of the analytical tests are:

i. *Unadjusted* score test

- **3-by-2 contingency table** of genotypes by phenotypes was constructed.
- **No adjustment** for covariates.
- The ***p-value*** from the standard test of independence was computed from the **3-by-2 contingency table**, based on a chi-squared test with up to 2 degrees of freedom.

ii. *Adjusted* score test

- **Dichotomous unconditional logistic regression** was performed.
 - Two phenotypes (either case or control);
 - The regression variable was performed on two-indicator variables for heterozygote and rare homozygote genotype states.
- **Adjustment** for
 - An indicator variable for each age group at randomization (ages categories <55, 55-59, 60-64, 65-69, 70-74, and >74, with range 55-59 as the reference),
 - an indicator for known hormone replacement therapy status at blood draw,
 - an indicator for unknown hormone replacement therapy status at diagnosis; this variable is included because it was a matching factor
 - three sets of coefficients to adjust for estimated population stratification corresponding to the top three eigenvectors identified by the principal component analysis.
- The ***p-value*** was obtained from a score test with up to 2 degrees of freedom.

Stage 2. Large-scale Replication

Studies

Women's Health Initiative (WHI)⁸

The WHI Observational Study (OS) cohort enrolled 93,676 postmenopausal women during 1993-1998. Women ineligible for, or not interested in, the clinical trials were given the opportunity to enroll in the OS. As of September 2005, the OS cohort had been followed for an average of 7.5 years. Detailed information on the cohort has been published⁷.

Initial reports of breast cancer were ascertained by self-administered annual questionnaires. Breast cancer occurrences were confirmed by medical record and

pathology report review by physician-adjudicators at the local clinical centers. All cases were subsequently classified centrally at the coordinating center by using the National Cancer Institute's Surveillance, Epidemiology, and End Results coding system (<http://www.seer.cancer.gov/>). A complete description of the WHI outcomes adjudication process is provided elsewhere⁸.

Pathologic confirmation is standard in WHI. Occasionally a cancer is diagnosed clinically because histologic confirmation is not available. Ninety-seven percent of self-reported breast cancer cases were confirmed locally. Subsequent central adjudication confirmed > 99% of the locally confirmed breast cancer cases, and 98% of the invasive breast cancer cases. Invasive breast cancers only are included in this project.

The set of breast cancer cases and controls for CGEMS was obtained from two previously selected breast cancer core studies. Participants were ineligible if they had an inadequate volume of available DNA, or refused genetic testing. One of the core studies also excluded participants with a history of breast cancer reported at baseline. Invasive breast cancer cases were matched to one control on age at screening, enrollment date, race/ethnicity, hysterectomy status at baseline and history of breast cancer at baseline.

Information on family history of breast cancer was obtained once, at screening. Personal history of breast biopsy occurrence was collected at screening, and annually during follow-up.

PLCO Breast Cancer Study⁹

The Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial (PLCO), a randomized two-arm trial to determine if screening reduced the mortality from these cancers, enrolled during 1993-2001 155,000 men and women, aged 55–74, in 10 U.S. centers⁴. At study entry, demographic, medical, and lifestyle information and a blood sample were requested from the subjects assigned to the screening arm, including 39,000 women. Incident cancers are ascertained by annual mailed questionnaires (94% completion rate for living Trial participants), as well as searches of the National Death Index. For all reported cancers, medical records were requested from the appropriate hospitals to confirm diagnoses. Of the 37,800 women completing the baseline questionnaire and at least one follow up questionnaire, 83% also provided a blood sample and informed consent. Included in this nested case-control study of breast cancer are all 927 non-Hispanic white women with incident breast cancer reported by June 30, 2005, no previous history of breast cancer, a baseline questionnaire and blood sample, and informed consent. Also selected for this study were 927 non-Hispanic white controls, frequency matched to cases on age at randomization (5-year categories) and year of randomization (two categories), with no report of breast cancer as of June 30, 2005, a baseline questionnaire and blood sample, and informed consent. Because the youngest women in the cohort were 55 years at entry, practically all of the breast cancers diagnosed were postmenopausal.

The American Cancer Society Cancer Prevention Study II Nutrition Cohort (CPS-II)¹⁰

The American Cancer Society Cancer Prevention Study II Nutrition Cohort (CPS-II) was established in 1992; the cohort includes over 86,000 men and 97,000 women from 21 U.S. states who completed a mailed questionnaire in 1992. At baseline, the cohort was 97% white and the median age of participants was 63 (range: 40-92). Starting in 1997, follow-up questionnaires have been sent to surviving cohort members every other year to update exposure information and to ascertain occurrence of new cases of cancer; a >90% response rate has been achieved for each follow-up questionnaire. Incident cancers are verified through medical records, state cancer registries, or death certificates. From 1998 - 2001, blood samples were collected from a subgroup of 39,376 cohort members.

Cases of postmenopausal breast cancer were frequency matched to controls on single year of age, ethnicity, date of sample collection and menopausal status (all postmenopausal). All controls were selected from individuals who were cancer-free (except for non-melanoma skin cancer) at the beginning of the interval preceding the diagnosis of each case. Similarly, cases were not eligible if they had a history of another cancer other than non-melanoma skin cancer prior to their diagnosis of breast cancer.

Polish Breast Cancer Study (PBCS)¹¹

A population-based breast cancer case-control study was conducted between 2000-2003 among female residents of Warsaw and Łódź, Poland, 20 to 74 years of age and of Polish Caucasian origin. Incident breast cancer cases were identified through participating hospitals and cancer registries, and confirmed by pathology review. Population controls with no history of breast cancer were randomly selected from population lists, frequency matched to cases on city and age in 5-year categories. A total of 2,386 cases (79% of those eligible) and 2,502 controls (69% of those eligible) agreed to participate in a personal interview regarding known and suspected risk factors for breast cancer. Blood cell samples were obtained at enrollment from 1,995 cases (6% in situ) and 2,296 controls, which represent 84 and 96%, respectively, of the study population. In addition, we obtained buccal cell DNA from an additional 238 cases and 85 controls.

In Stage 2, 669 cases and 506 controls were genotyped. The remainder of the study, 1,467 cases and 1,783 controls were genotyped with the 24 TaqMan SNPs in Stage 3. In addition, all subjects genotyped in Stage 2 were also genotyped in Stage 3 to assess concordance (see below).

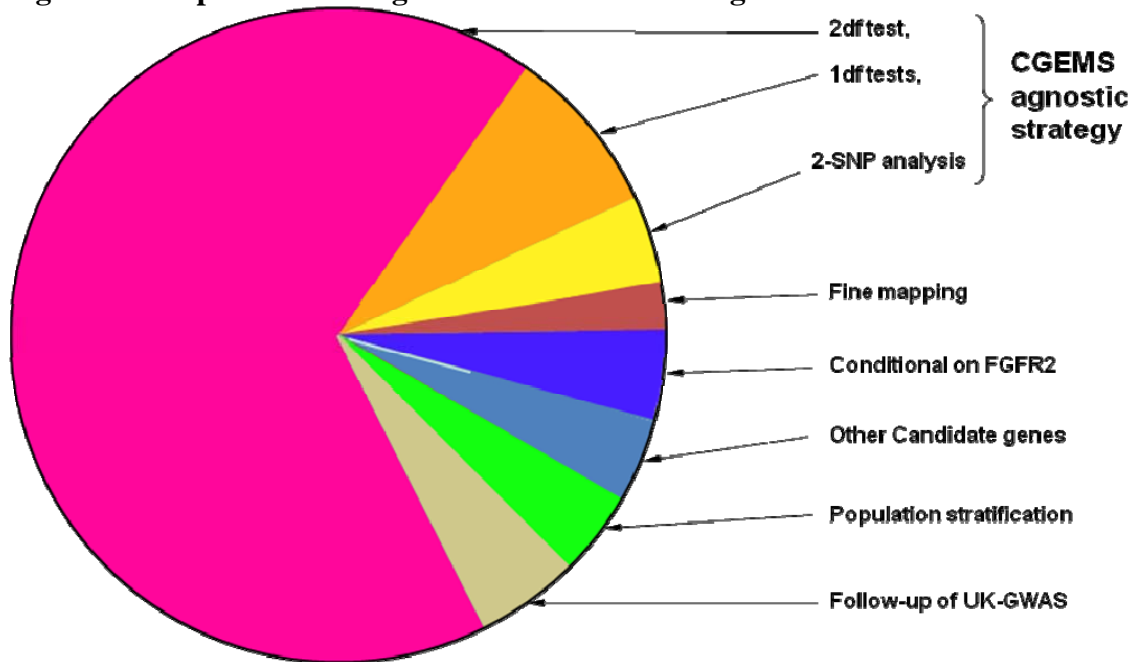
Design

Based on the results of Stage 1 in the NHS scan, 33,041 SNPs were chosen for a custom iSelect Infinium chip (Illumina). Due to either design or manufacturing problems, 2,593 SNPs failed, leaving 30,448 SNPs available for assay as per the chip manifest.

After passing quality control filters, the Stage 2 analysis of the CGEMS breast GWAS study explores the association in a function-agnostic approach based on ranked p-values observed in Stage 1 on 24,909 SNPs based on single-SNP association tests. 22,136 SNPs were selected based on the p-value less than 0.05 in a logistic regression model using a two-degree of freedom score test with indicator variables for heterozygous and homozygous carriers, adjusted for age, study design, and four continuous variables representing the top principal components of population stratification. The 2-df score test was chosen because it makes minimal assumptions for underlying genetic models. This set of SNPs was augmented by 2,773 SNPs with an observed p-value less than 0.06 in one of more 1-df tests of dominant, recessive or multiplicative models that were already not included by the 2-df described above. 1,436 SNPs were selected based on a two-SNP association test that conditioned each SNP on a neighboring SNP with marginal p-value less than 0.05, if this improved the p-value relative to the single SNP-statistics by an order of magnitude. In addition, 1,508 SNPs were chosen to monitor population structure.

Additional SNPs were chosen to explore high-profile genomic regions identified in GWAS studies with 1,711 SNPs for fine-mapping. 3,788 SNPs were drawn from candidate gene regions, collaboration with the Cancer Research UK breast cancer scan (Easton) and an analysis of suggested interaction with variants in intron 2 of *FGFR2*. These parallel hypotheses, not based on ranked p-values from Stage 1, will not be discussed here and are to be reported elsewhere. See figure 1 for the breakdown of SNPs selected.

Figure i. Composition of Stage 2 Illumina iSelect design



Quality Control

DNA samples were received from each cohort and visually inspected for adequate fluid volume in individual tubes. Three measurements of DNA quantity were performed according to the standard procedures at the Core Genotyping Facility of the National Cancer Institute. These include pico-green analysis, optical density spectrophotometry and real time PCR (<http://cgf.nci.nih.gov/dnaquant.cfm>). Samples were also analyzed with 15 short tandem repeats and the Amelogenin marker in the Identifiler™ Assay (ABI, Foster City, CA). All samples advanced to genotype analysis completed no less than 13 of the 15 micro-satellite markers.

The quality control analysis is based on available samples from Stage 1¹ and Stage 2 summarized in Table i. The number of unique subjects available for analysis are listed in Table ii.

Table i. Samples genotyped in STAGES 1+2 prior to quality control exclusions

Phenotype	STUDY					Total
	CPSII	NHS	PBCS	PLCO	WHI	
Case	556	1,247	805	1,058	2,505	6,171
Control	564	1,224	605	1,185	2,516	6,094
Unknown	8			2		10
Total	1,128	2,471	1,410	2,245	5,021	12,275

Table ii. Subjects genotyped in STAGES 1+2 prior to quality control exclusions

Phenotype	STUDY					Total
	CPSII	NHS	PBCS	PLCO	WHI	
Case	556	1,158	788	1,058	2,457	6,017
Control	564	1,159	586	1,083	2,451	5,843
Unknown	4			2		6
Total	1,124	2,317	1,374	2,143	4,908	11,866

Quality control metrics include determination of discordance between reported sex and genotyped sex, unclear identity or sample contamination analysis, and poor assay performance, based on a 90% genotype completion threshold. The results are shown in Table iii.

SNPs were excluded for 2 reasons: 1) The assay failed manufacturing at Illumina or 2) The assay exhibited low completion rate in the laboratory. A total of SNPs failed to provide reliable genotype results due to either no call or low call rates (<90%; see Table i for distribution among SNP categories of inclusion).

Table iii. Samples failing the quality control

Study	Phenotype	Identifier profile discordance	gender discordance	low completion*	duplicate discordance
CPSII	Case			4	
	Control			11	
NHS	Case			30	
	Control			29	
PBCS	Case			125	
	Control			88	
PLCO	Case	4	1	3	
	Control	4	1	6	2
WHI	Case			38	1
	Control			31	1
Total		8	2	365	4

* Missing rate threshold: 6% for Stage 1 (NHS) and 5% for Stage 2.

Table iv shows the available samples for analysis after quality control metrics, but before assessment of population heterogeneity.

Table iv. Samples in STAGES 1+2 after quality control exclusions

Phenotype	STUDY					Total
	CPSII	NHS	PBCS	PLCO	WHI	
Case	552	1,217	680	1,050	2,466	5,965
Control	553	1,195	517	1,172	2,484	5,921
Unknown	8	2	10			20
Total	1,113	2,412	1,197	2,224	4,950	11,896

Accounting for the known duplicates embedded in each of the studies, Table v presents the number of unique subjects with case/control status for subsequent analysis.

Table v. Subjects in STAGES 1+2 after quality control exclusions

Phenotype	STUDY					Total
	CPSII	NHS	PBCS	PLCO	WHI	
Case	552	1,155	669	1,050	2,419	5,845
Control	553	1,154	506	1,071	2,420	5,704
Unknown	4	2	6			12
Total	1,109	2,309	1,175	2,123	4,839	11,555

Table vi presents the concordance between known duplicate samples (pairs, except for and one triplicate in PLCO). Table vii summarizes the number reasons for excluding subjects in Stages 1 and 2 in addition to those excluded by the genotype quality control process.

Table vi. Expected duplicates in STAGE 2

Study	Duplicate pairs	Concordance rate (%)	Concordant genotypes	genotype comparisons
CPSII	4	99.930	120,731	120,815
PLCO	100 + 1 trip	99.470	3,100,739	3,117,271
PBCS	22	99.996	652,103	652,127
WHI	111	99.998	3,365,635	3,365,710
Total	237 + 1 trip	99.770	7,239,208	7,255,923

Table vii. Subjects excluded from association

Study	Phenotype	non-CEU admixture*	excluded by request of PI	inter-study duplicate	incomplete phenotype data	duplicate discordance
NHS	Case	3				7
	Control	1				11
CPSII	Case	8		9		
	Control	8		2		
PBCS	Case					
	Control					
PLCO	Case	89	1	14		
	Control	96				
WHI	Case	5		19		
	Control	8		2		
Total		218	1	46	6	18

* The minimum threshold for estimated CEU admixture is 85% for Stage 1 and 80% for Stage 2.

** Two subjects were removed for two reasons: one has both a high degree of admixture and is an inter-study duplicate and one was admixed as well as excluded by request of the study investigators. Therefore the number of unique excluded subjects is 287 instead of 289.

Assessment of Population Structure

Two independent sets of SNPs were used for the detection of population stratification in the four follow up samples. The first set of pre-selected 1,508 SNPs had been specifically chosen for typing in the follow-up studies for this purpose and were selected because of completion rates higher than 90%, a residual linkage disequilibrium r^2 value lower than 0.1 for any pair of SNPs less than 200 Kb apart and enabling a stable detection of the first two principal components of population structure identified in the NHS study. The second set of 10,693 SNPs was selected from all of the SNPs typed in the follow-up studies because of indication of their possible associations in the genome-wide scan. The selection was based upon a completion rate higher than 90% and residual linkage disequilibrium r^2 value lower than 0.0075 for any pair of SNPs less than 200Kb apart¹².

In an attempt to maximize genetic homogeneity, subjects with significant estimated non-European ancestry were excluded from analysis. This estimation was done using the

STRUCTURE program by merging the genotypes from the follow-up studies with those of the reference HapMap population downloaded from the HapMap web site. The number of clusters (the “k” parameter) was set to three and the CEU, YRI and JPT+CHB samples were each specified to a different cluster schematically representing populations of European, African and Asian origin respectively¹³. The CGEMS samples were left unspecified. All individuals that had at greater than 80% European ancestry were retained for the replication study, regardless of their reported origin. Each of PLCO and WHI provided samples with known self-described non-European background. These samples were confirmed by STRUCTURE analysis and excluded from the primary analyses.

We defined the imputed origin as follows: a subject is considered to have a single continental origin if the estimated admixture portion was greater than 80% with any single seed population. Subjects were labeled “admixed” if their estimated proportion of admixture was greater than 20% with only one population, but less than 80%. Subjects with greater than 20% estimated admixture with more than one seed population was labeled as the concatenation of all such seed populations. For Stage 1, namely the GWAS in NHS, the cut-off used was 15%.

Figure 2 shows a plot of admixture coefficients estimated by STRUCTURE and Table viii lists subjects excluded from association analysis due to estimated non-CEU admixture.

Figure ii: Admixture coefficients for Stage 2 subjects

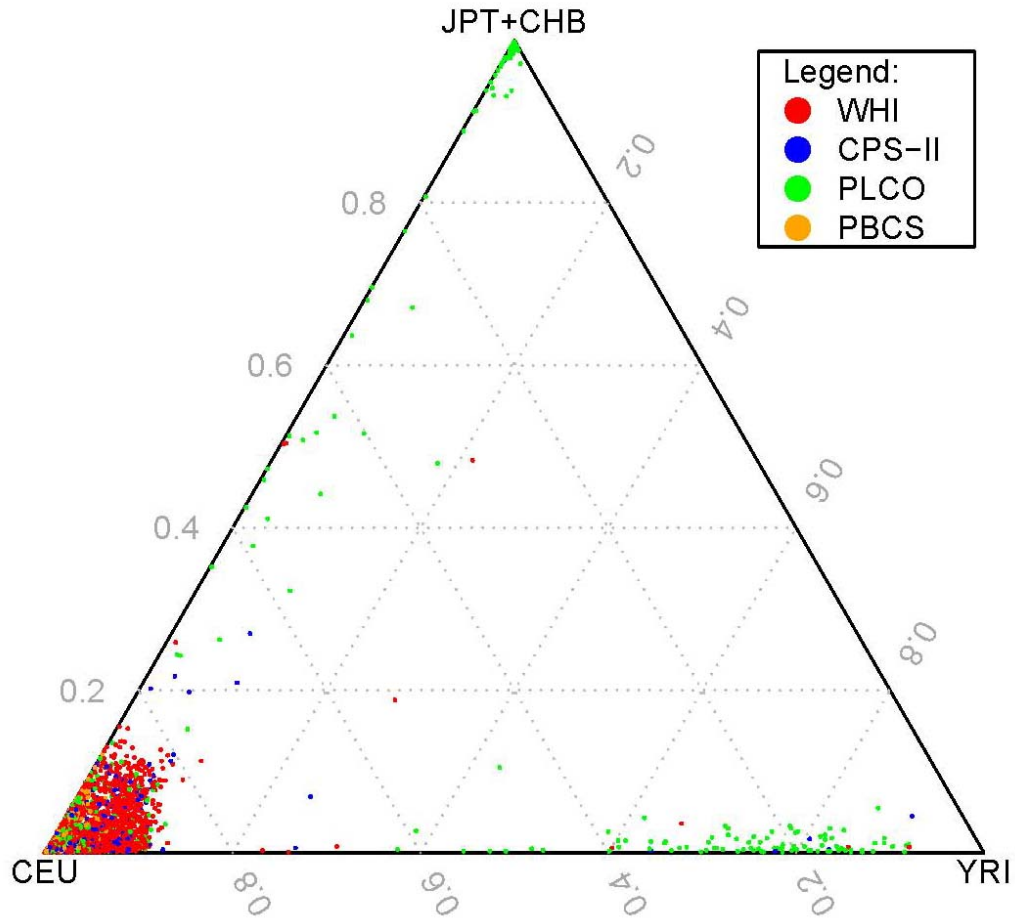


Table viii. Admixture analysis exclusions

Study	Imputed race	Self-reported race								
		American Indian	Asian	Black	Black, non-Hispanic	Hispanic	Pacific islander	White	White, non-Hispanic	White/Hispanic
CPSII	ADMIXED:CEU									1
	CEU,JPTCHB					4				
	CEU,YRI			4						
	JPTCHB		4							
	YRI			3						
PLCO	ADMIXED:CEU					1				
	ADMIXED:YRI				6					
	CEU,JPTCHB	2	6			7	7			
	CEU,YRI				50					
	JPTCHB		72				2			
	YRI				30	1			1	
WHI	ADMIXED:CEU							1		
	CEU,JPTCHB							3		
	CEU,JPTCHB,YRI							1		
	CEU,YRI							6		
	YRI							2		
Total		2	82	7	86	13	9	13	1	1

Table ix presents the number of unique subjects available for analysis in Stage 1 and Stage 2.

Table ix. Subjects used in association for STAGES 1+2

Phenotype	STUDY					Total
	CPSII	NHS	PBCS	PLCO	WHI	
Case	535	1,145	669	948	2,395	5,692
Control	543	1,142	506	975	2,410	5,576
Total	1,078	2,287	1,175	1,923	4,805	11,268

Hardy-Weinberg Proportion

Deviations from Hardy-Weinberg proportions were assessed on the control samples by each study. A Q-Q plot of the p values for each study is shown in Figure 3A. Expected p values were estimated using the uniform distribution for all loci and the observed p values were calculated based on the exact test. SNPs were filtered by only including autosomal SNPs with MAFs greater than 5% and completion rates greater than 95%. The

numbers of SNPs with p values less than 0.05 and 0.001 are shown in the plots. In order to check the low p-value corner of Figure 3A, Q-Q plot of p values in the logarithm space were shown in Figure 3B. Both figures demonstrate that globally there is no significant deviation from Hardy-Weinberg proportion.

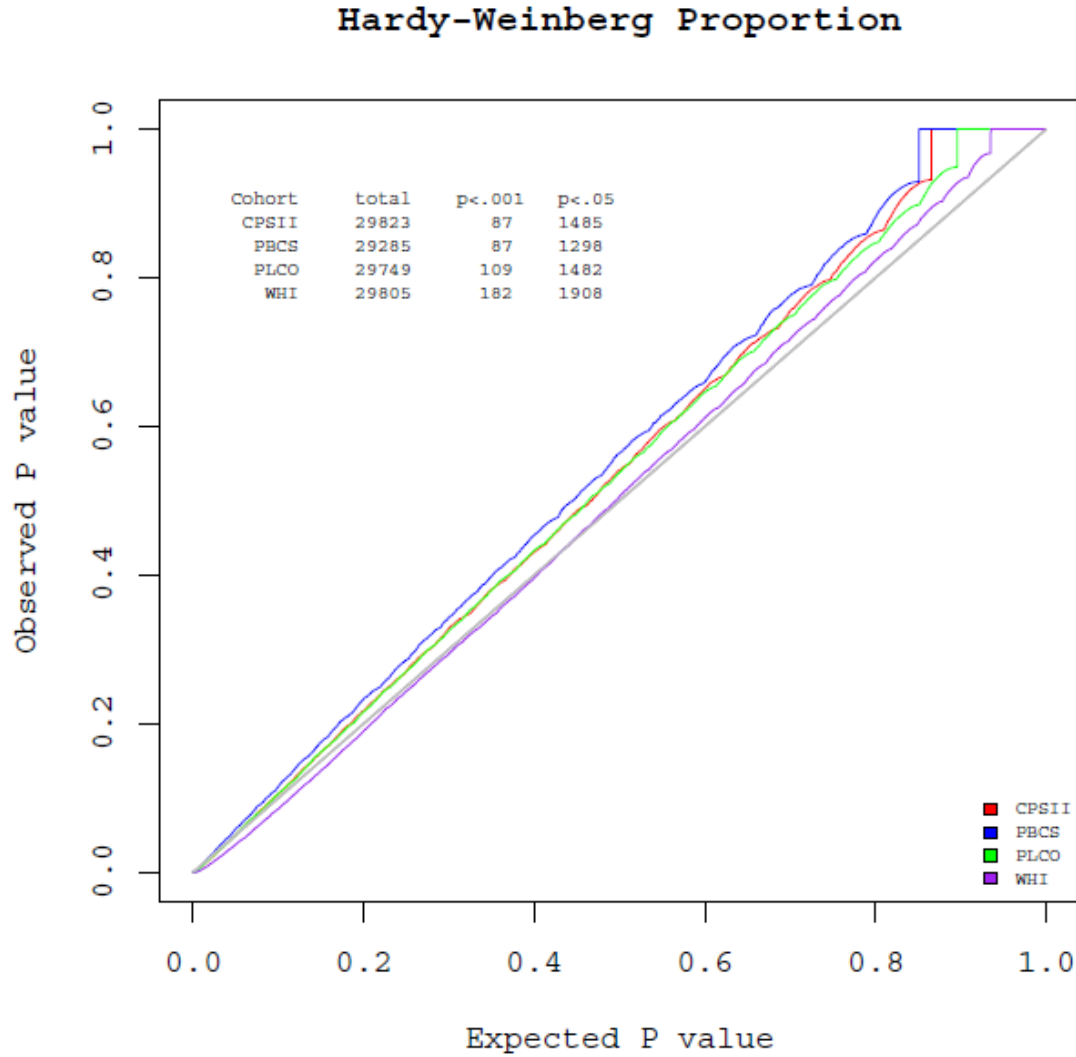


Figure iia

Hardy-Weinberg Proportion

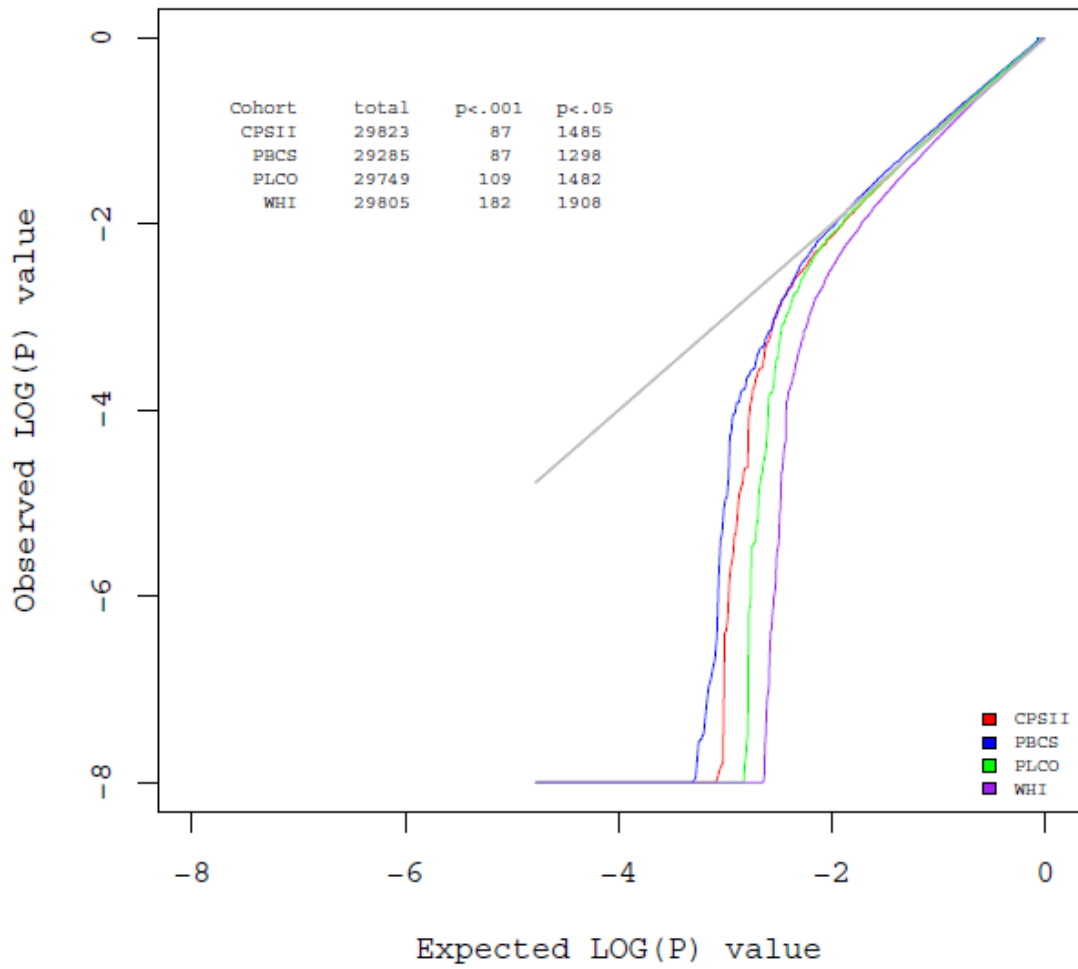


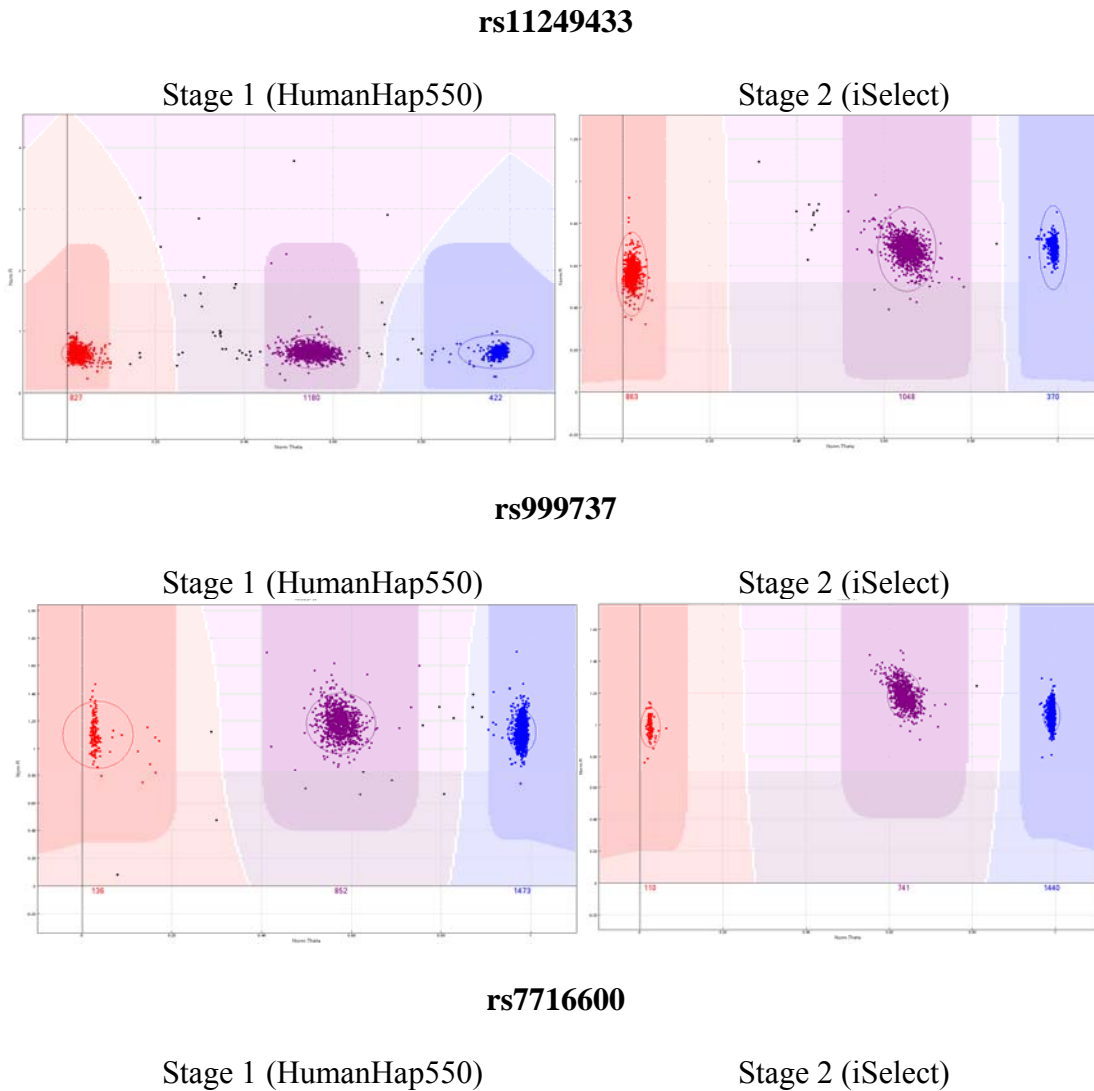
Figure iib

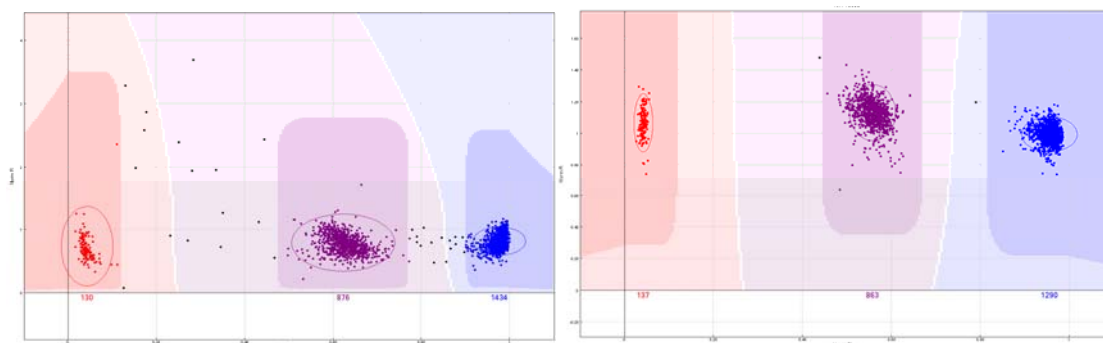
Analysis

For the follow-up replication studies, all one- and two- SNPs analyses were conducted using unconditional logistic regression, adjusted for age (in ten-year categories) and study. We analyzed each study separately, the pooled replication studies (all except NHS), and all studies combined.

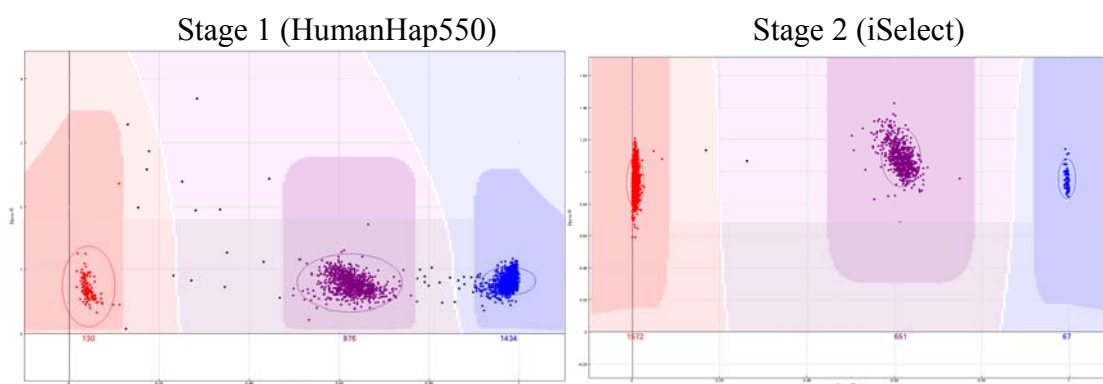
The analytic approach assumes no structure to the risk across the 3 possible genotypes at each locus. This approach maintains power to detect recessive or over-dominant alleles at the cost of a small decrease in power relative to the Cochran-Armitage trend test for the detection of alleles with multiplicative effect.

Figure iv. Illumina Infinium genotype cluster plots for four notable SNPs





rs2067980



Stage 3. Follow-up of 24 SNPs

Studies

Cohorts of Norway (CONOR)¹⁴

The primary aim of CONOR is to study the etiology, prevalence and incidence of a large number of diseases. CONOR is a collaboration of four population-based cohorts in Norway of approximately 180,000 participants of both sexes where information on the participants is collected at regular intervals. Core variables have been established through questionnaires, clinical measurements and venous blood sampling. Among the six studies data for this investigation were available from the HUNT and Tromsø studies (approximately 48,000 women). Incident breast cancer cases (n=566) were ascertained by linkage to the Norwegian Cancer Registry, and controls (n=545) were matched to the cases by age and study site. In this study, DNA from 516 cases and 498 controls were included.

Nurses' Health Study II (NHS II)¹⁵

The NHS2 began in 1989 when 116,671 female registered nurses (aged 25 to 42) from 14 U.S. states were enrolled. Blood samples were collected from 29,611 NHS2 participants in 1996-1999. Between blood collection and June 1, 2003 incident breast cancer cases (n=317) were identified via self-report, and confirmed by medical records. To increase power two controls for each case (n=634) were then selected for each case matched case based on year of follow-up, month and year of blood draw, and fasting status at blood draw, as well as age, menopausal status, and ethnicity. Pre-menopausal cases were additionally matched to controls based on luteal day (days before start of next menstrual cycle) to permit analyses of plasma hormone levels.

The Women's Health Study (WHS)¹⁶

The WHS is a completed randomized, double-blind, placebo-controlled trial investigating the benefits and risks of aspirin and vitamin E in the primary prevention of cancer and cardiovascular disease among 39,876 female health professionals, with enrollment beginning in April 1993. Blood samples have been collected from 28,345 women. WHS cases consisted of women with pathologically confirmed invasive breast cancer who had been diagnosed after blood collection and before 7 March, 2003. Controls were randomly selected participants who had given a blood sample, and were free of diagnosed cancer. Controls were matched to cases according to age, menopausal status and postmenopausal hormone use at time of blood draw.

The U.S. Radiologic Technologists (USRT)¹⁷

The USRT study was initiated in 1982 by the U. S. National Cancer Institute, in collaboration with the University of Minnesota and the American Registry of Radiologic Technologists and includes 146,022 (106,953 female) radiologic technologists who were certified for at least two years between 1926 and 1982. Cohort follow-up methods for cancer risk factors and health outcomes including incident breast cancer cases were by postal surveys, selected state cancer registry linkages, and the National Death Index. In 1998, all living female technologists reporting a primary breast cancer (ductal carcinoma *in situ* or invasive breast cancer) that was confirmed based on pathology or medical records were eligible for inclusion in the nested breast cancer case-control study. Controls were technologists who had not reported a diagnosis of breast cancer prior to 1998 and were randomly selected and frequency matched to cases (ratio 1.5:1) by birth year in 5 year strata. Sixty-three % of cases (n=874) and 48 % of controls (N=1094) provided informed consent, a blood sample, and completed a telephone interview. Few differences were found when demographic and other characteristics among responders, non-responders, and decedents were compared.

Genotype Analysis

Table x. Samples Genotyped in Stage 3.

Study	Controls	Cases
NHS2	1,243	619
NOR	498	516

PBCS2	1,783	1,467
USRT	998	780
WHS	701	696
Total	5,223	4,078

TaqMan assays were designed and optimized for 24 SNPs (see Figure 4 for plots of assay probe intensity and genotype clusters from Stages 1 and 2). Primers and probes are available on the SNP500Cancer website (<http://snp500cancer.nci.nih.gov>). Assays were validated according to the SNP500Cancer optimization protocol with assay completion rates shown in Table xi. 11 additional subjects were genotyped but excluded from analysis due to incomplete phenotype data.

In order to confirm the validity of the genotype call using the Infinium™ Technology (Illumina Corp., San Diego, CA), 24 SNPs were assayed by TaqMan™ (ABI, Foster City, CA) platform in the Polish Breast Breast Cancer Study to assess the concordance between Infinium™-generated genotype calls shown in Table xii and displays the concordance rate between Infinium and TaqMan genotypes and GenTrain scores for the Infinium assays¹⁸.

Table xi. Completion Rates for each of 24 SNPs overall

Locus	Completion Rate
rs999737	97.6%
rs10850145	98.4%
rs10941679	97.3%
rs11077820	97.3%
rs11249433	97.0%
rs12608723	98.1%
rs12622050	97.2%
rs1274466	97.9%
rs17570439	97.3%
rs17740709	97.2%
rs2067980	97.6%
rs2303659	97.5%
rs2391406	97.2%
rs3134615	98.0%
rs37936	97.7%
rs3817198	98.0%
rs4415084	97.6%
rs4666451	97.7%
rs7121523	97.7%
rs724244	97.8%
rs7936636	97.7%
rs7716600	98.0%

rs9491859	97.3%
rs998592	97.8%
Overall	97.6%

Table xii. Concordance between Infinium iSelect and TaqMan-derived genotypes for the 24 SNPs in Stage 3.

SNP	concordant genotypes	discordant genotypes	discordance rate
rs2303659	1,109	1	0.09%
rs17570439	1,105	1	0.09%
rs7121523	1,097	1	0.09%
rs7936636	1,088	2	0.18%
rs10850145	1,110	3	0.27%
rs2067980	1,102	4	0.36%
rs3134615	1,101	4	0.36%
rs998592	1,097	4	0.36%
rs17740709	1,094	4	0.36%
rs11077820	1,100	5	0.45%
rs3817198	1,095	6	0.55%
rs11249433	1,093	6	0.55%
rs12622050	1,090	6	0.55%
rs724244	1,103	7	0.63%
rs4666451	1,102	7	0.63%
rs9491859	1,100	8	0.72%
rs999737	1,097	8	0.72%
rs2391406	1,093	8	0.73%
rs7716600	1,100	9	0.81%
rs1274466	1,095	11	0.99%
rs12608723	1,088	11	1.00%
rs4415084	1,095	14	1.26%

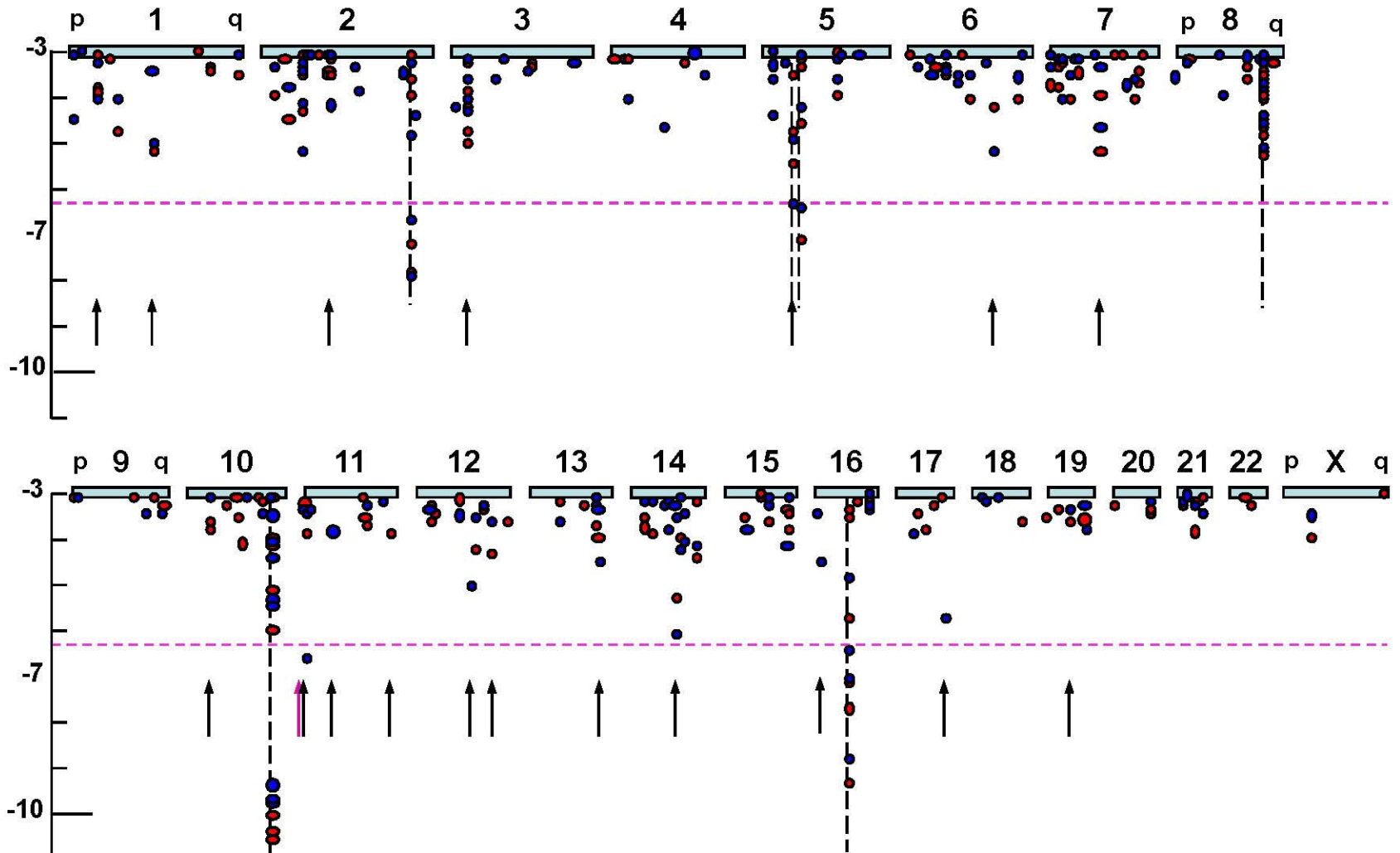
Reference List

1. Hunter, D.J. et al. A genome-wide association study identifies alleles in FGFR2 associated with risk of sporadic postmenopausal breast cancer. *Nat Genet.* **39**, 870-874 (2007).
2. Colditz, G.A. & Rosner, B. Cumulative Risk of Breast Cancer to Age 70 Years According to Risk Factor Status: Data from the Nurses' Health Study. *Am J Epidemiol.* **152**, 950-964 (2000).
3. Tworoger, S.S., Eliassen, A.H., Sluss, P. & Hankinson, S.E. A Prospective Study of Plasma Prolactin Concentrations and Risk of Premenopausal and Postmenopausal Breast Cancer. *J Clin Oncol.* **25**, 1482-1488 (2007).
4. The International HapMap Project. *Nature* **426**, 789-796 (2003).
5. Barrett, J.C., Fry, B., Maller, J. & Daly, M.J. Haploview: analysis and visualization of LD and haplotype maps. *Bioinformatics* **21**, 263-5 (2005).
6. The International HapMap Project. A haplotype map of the human genome. *Nature* **437**, 1299-1320 (2005).
7. Langer, R.D. et al. The women's health initiative observational study: baseline characteristics of participants and reliability of baseline measures. *Ann Epidemiol.* **13**, S107-S121 (2003).
8. Curb, J.D. et al. Outcomes ascertainment and adjudication methods in the women's health initiative. *Ann Epidemiol* **13**, S122-S128 (2003).
9. Hayes, R.B. Etiologic and early marker studies in the prostate, lung, colorectal and ovarian (PLCO) cancer screening trial. *Control. Clin. Trials* **21**, 349S-355S (2000).
10. Stevens, V.L., Rodriguez, C., Pavluck, A.L., Thun, M.J. & Calle, E.E. Association of polymorphisms in the paraoxonase 1 gene with breast cancer incidence in the CPS-II Nutrition Cohort. *Cancer Epidemiol. Biomarkers Prev.* **15**, 1226-1228 (2006).
11. Garcia-Closas, M. et al. Common genetic variation in TP53 and its flanking genes, WDR79 and ATP1B2, and susceptibility to breast cancer. *Int J Cancer* **121**, 2532-2538 (2007).
12. Yu, K. et al. Population Substructure and Control Selection in Genome-Wide Association Studies. *PLoS ONE* **3**, e2551 (2008).
13. Price, A.L. Principal components analysis corrects for stratification in genome-wide association studies. *Nat Genet.* **38**, 904-909 (2006).
14. Naess, O. et al. Cohort Profile: Cohort of Norway (CONOR). *Int J Epidemiol.* **37**, 481-485 (2008).
15. Eliassen, A.H., Tworoger, S.S., Mantzoros, C.S., Pollak, M.N. & Hankinson, S.E. Circulating Insulin and C-Peptide Levels and Risk of Breast Cancer among Predominately Premenopausal Women. *Cancer Epidemiol Biomarkers Prev.* **16**, 161-164 (2007).
16. Rexrode, K.M., Lee, I.M., Cook, N.R., Hennekens, C.H. & Buring, J.E. Baseline Characteristics of Participants in the Women's Health Study. *J Womens Health Gen Based Med.* **9**, 19-27 (2000).
17. Bhatti, P. et al. Polymorphisms in DNA repair genes, ionizing radiation exposure and risk of breast cancer in U.S. Radiologic technologists. *Int J Cancer* **122**, 177-182 (2008).

18. NCI-NHGRI Working Group on Replication in Association Studies. Replicating genotype-phenotype associations. *Nature* **447**, 655-660 (2007).

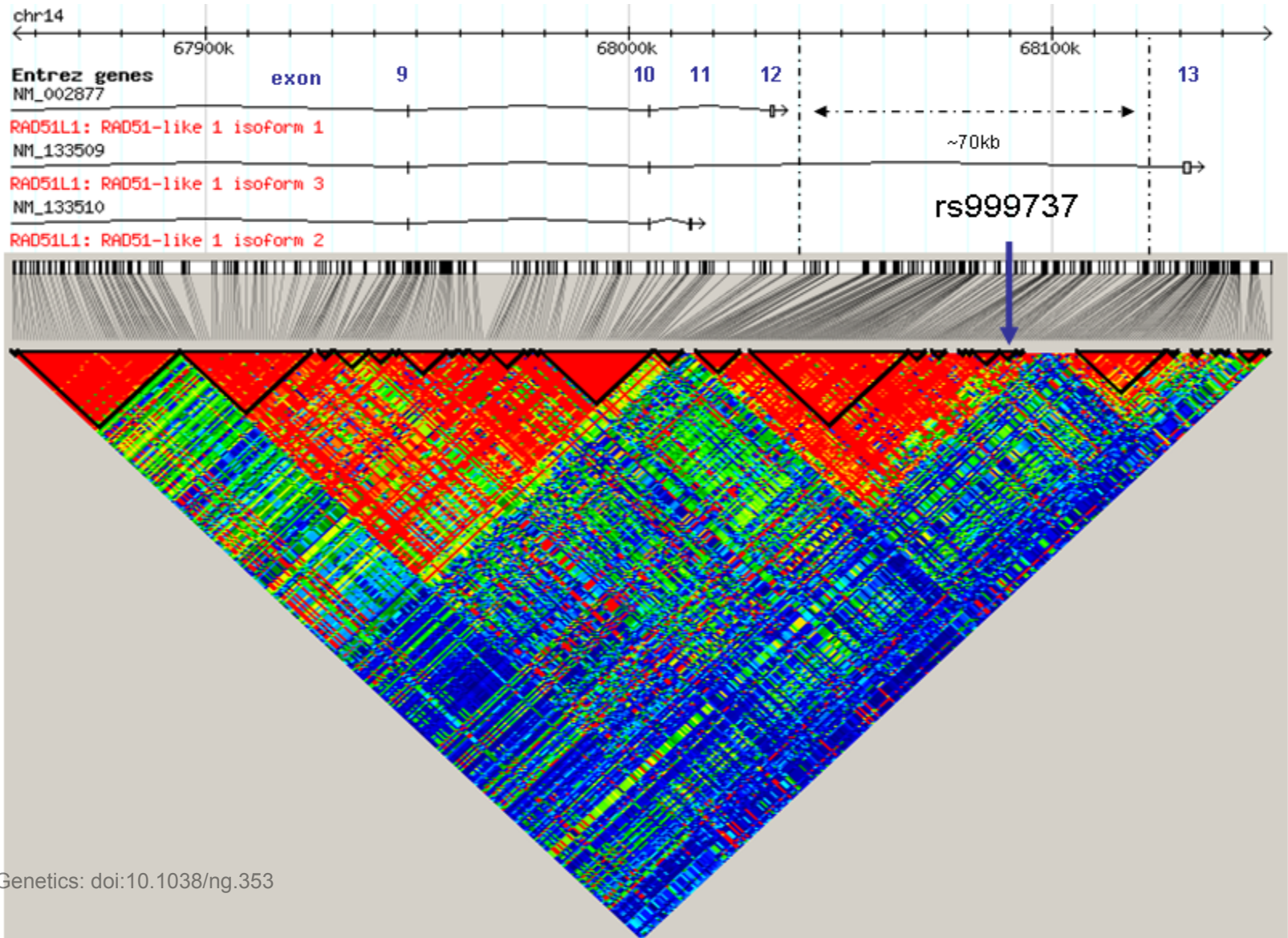
Supplemental Figure 1. Results of Combined Stage 1 and 2

This figure includes the most promising SNP associations based on a combined analysis of Stage 1 and Stage 2. A joint analysis of the genotypes was performed using an age, study design and population stratification-adjusted logistic regression analysis (2 df test). Dashed vertical lines indicate loci previously reported in GWAS^{10-13,19}. The horizontal magenta line denotes the range of genome-wide significance ($p < 5 \times 10^{-7}$). Black vertical arrows indicate loci explored in Stage 3 chosen on the basis of the p value. The magenta vertical arrow points to rs3817198 in the *LSP1* gene. Blue dots denote the results of the genotype test and red dots denote the trend test.



Supplemental Figure 2. Linkage Disequilibrium Plot of Chromosome 14q24.1 Region.

Chromosome 14q24.1 region marked by rs999737 and bounded by SNPs between chr14:67,854,652-68,151,670. Note that the SNP (and the surrogate analyzed in Stage 3, rs10483813, because of difficulties in designing an optimized TaqMan assay) is located in an intron exclusive to the longest predicted transcript of *RAD51L1*. The SNP resides in a region bounded by the last exon in *RAD51L1*, which has been reported in one of the three known splice variants. LD metric shown is D' ; black triangles represent haplotype blocks based on confidence intervals (Haploview).



STAGE1-2	3	0.239|0.212	3092|1863|330|3354|1858|226	5285|5438	27.75	9.40E-07	2	0.92	0.85	1.00	0.63	0.53	0.75
STAGE2	4	0.237|0.212	2432|1457|254|2651|1464|179	4143|4294	19.38	6.18E-05	2	0.92	0.84	1.01	0.65	0.53	0.79
CPSII	20	0.235|0.222	319|193|31|325|182|28	543|535	0.54	0.7648915	2	0.93	0.72	1.20	0.85	0.50	1.46
PBCS1	7	0.242|0.213	291|185|30|409|234|25	506|668	3.79	0.1501912	2	0.91	0.71	1.17	0.58	0.33	1.02
PLCO	3	0.238|0.215	576|334|65|576|336|36	975|948	7.63	0.0220161	2	1.00	0.82	1.21	0.56	0.36	0.85
WHI	10	0.235|0.209	1416|854|139|1492|801|101	2409|2394	9.38	0.0091668	2	0.89	0.79	1.01	0.69	0.53	0.90
STAGE3	5	0.240|0.226	2918|1789|310|2366|1399|195	5017|3960	6.71	0.0348632	2	0.95	0.87	1.04	0.78	0.65	0.95
NHS2	18	0.234|0.226	664|362|77|336|187|32	1103|555	0.93	0.6273499	2	1.02	0.82	1.27	0.82	0.53	1.26
NOR	3	0.257|0.215	271|195|30|319|171|25	496|515	5.60	0.0608396	2	0.74	0.57	0.97	0.71	0.40	1.23
PBCS2	11	0.236|0.226	1016|637|94|850|514|66	1747|1430	1.21	0.5462296	2	0.96	0.83	1.12	0.84	0.60	1.17
RADT	19	0.243|0.232	572|357|62|459|275|43	991|777	0.29	0.8629217	2	0.98	0.80	1.19	0.90	0.59	1.35
WHS	3	0.244|0.227	395|238|47|402|252|29	680|683	4.75	0.0931328	2	1.04	0.83	1.30	0.61	0.37	0.98
PBCS 1+2	6	0.237|0.222	1306|819|124|1257|746|92	2249|2095	3.63	0.1629349	2	0.94	0.83	1.07	0.77	0.58	1.02

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.221|0.241	6270|3545|506|5441|3395|564	10321|9400	21.45	2.20E-05	2	1.10	1.04	1.17	1.28	1.13	1.45
NHS	8	0.215|0.249	693|402|44|652|415|78	1139|1145	10.59	0.0050057	2	1.09	0.92	1.30	1.87	1.27	2.75
STAGE1-2	2	0.216|0.243	3227|1823|226|3147|1934|354	5276|5435	28.74	5.74E-07	2	1.08	1.00	1.17	1.59	1.34	1.90
STAGE2	6	0.216|0.241	2534|1421|182|2495|1519|276	4137|4290	18.95	7.66E-05	2	1.08	0.98	1.18	1.53	1.26	1.86
CPSII	19	0.225|0.236	325|192|26|315|186|33	543|534	0.71	0.6998429	2	1.01	0.78	1.30	1.26	0.73	2.17
PBCS1	3	0.217|0.263	308|173|23|362|256|47	504|665	5.48	0.0647072	2	1.24	0.97	1.59	1.67	0.98	2.83
PLCO	18	0.223|0.238	577|359|37|546|353|49	973|948	1.68	0.4307092	2	1.03	0.86	1.25	1.34	0.86	2.10
WHI	5	0.212|0.239	1499|797|111|1412|818|163	2407|2393	12.82	0.0016444	2	1.09	0.97	1.23	1.56	1.21	2.01
STAGE3	4	0.226|0.237	3043|1724|280|2293|1464|209	5047|3966	7.65	0.0218214	2	1.13	1.03	1.24	1.00	0.82	1.20
NHS2	9	0.229|0.236	676|383|66|324|211|27	1125|562	2.47	0.290905	2	1.15	0.93	1.42	0.85	0.53	1.36
NOR	15	0.246|0.241	284|178|33|293|191|28	495|512	0.87	0.6461693	2	1.04	0.80	1.35	0.80	0.47	1.37
PBCS2	4	0.223|0.231	1070|586|98|847|518|74	1754|1439	2.48	0.2887188	2	1.12	0.97	1.30	0.97	0.71	1.34
RADT	3	0.216|0.253	604|350|39|430|293|49	993|772	8.35	0.0154048	2	1.19	0.97	1.45	1.79	1.15	2.78
WHS	5	0.232|0.230	409|227|44|399|251|31	680|681	3.61	0.1648217	2	1.13	0.90	1.42	0.72	0.45	1.17
PBCS 1+2	3	0.221|0.241	1378|757|121|1210|771|122	2256|2103	5.44	0.0659559	2	1.16	1.02	1.32	1.14	0.88	1.49

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.406|0.429	3665|4889|1739|3084|4520|1763	10293|9367	20.01	4.53E-05	2	1.09	1.03	1.17	1.20	1.11	1.31
NHS	3	0.392|0.435	429|513|186|350|583|203	1128|1136	12.99	0.0015098	2	1.39	1.16	1.67	1.34	1.05	1.71
STAGE1-2	21	0.402|0.427	1895|2517|858|1797|2627|1006	5270|5430	12.71	0.0017364	2	1.09	1.00	1.19	1.22	1.09	1.37
STAGE2	20	0.404|0.425	1466|2004|672|1447|2044|803	4142|4294	8.23	0.0163348	2	1.02	0.93	1.13	1.19	1.05	1.36
CPSII	17	0.427|0.399	178|265|99|193|257|85	542|535	1.68	0.4317906	2	0.90	0.69	1.18	0.79	0.55	1.13
PBCS1	4	0.410|0.460	174|249|83|193|337|139	506|669	5.42	0.0666335	2	1.23	0.94	1.61	1.49	1.05	2.11
PLCO	19	0.408|0.422	339|475|160|321|454|173	974|948	0.80	0.671537	2	0.98	0.80	1.20	1.10	0.84	1.43
WHI	16	0.400|0.420	866|1158|385|827|1120|446	2409|2393	5.87	0.0531945	2	1.01	0.89	1.15	1.21	1.03	1.43
STAGE3	3	0.412|0.433	1770|2375|882|1289|1898|760	5027|3947	8.31	0.015715	2	1.10	1.00	1.21	1.19	1.05	1.34
NHS2	6	0.402|0.436	413|517|193|178|270|107	1123|555	3.81	0.149111	2	1.21	0.96	1.52	1.29	0.96	1.73
NOR	10	0.438|0.413	156|242|95|177|248|88	493|513	1.35	0.5090269	2	0.90	0.68	1.19	0.81	0.56	1.16
PBCS2	8	0.424|0.435	593|833|328|457|711|271	1754|1439	1.91	0.3856567	2	1.12	0.95	1.31	1.09	0.89	1.33
RADT	2	0.388|0.445	374|467|151|252|358|166	992|776	12.47	0.0019602	2	1.15	0.93	1.42	1.63	1.24	2.15
WHS	18	0.411|0.427	234|316|115|225|311|128	665|664	0.93	0.629498	2	1.02	0.80	1.30	1.16	0.85	1.58
PBCS 1+2	4	0.421|0.443	767|1079|410|648|1043|407	2256|2098	4.80	0.09065	2	1.14	1.00	1.31	1.18	0.99	1.40

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.035|0.028	9603|693|10|8879|500|14	10306|9393	18.88	7.94E-05	2	0.78	0.69	0.88	1.79	0.78	4.09
NHS	22	0.034|0.024	1064|78|0|1089|56|0	1142|1145									
STAGE1-2	18	0.034|0.025	4927|356|2|5166|271|3	5285|5440	15.25	0.0004891	2	0.72	0.61	0.85	1.25	0.21	7.61
STAGE2	15	0.034|0.026	3863|278|2|4077|215|3	4143|4295	11.35	0.0034349	2	0.73	0.61	0.88	1.25	0.21	7.60
CPSII	24	0.030|0.017	510|33|0|518|16|1	543|535									
PBCS1	22	0.033|0.022	473|33|0|640|29|0	506|669									
PLCO	15	0.036|0.028	906|68|1|895|52|1	975|948	2.09	0.3510362	2	0.76	0.53	1.11	0.58	0.03	10.04
WHI	17	0.034|0.026	2245|163|1|2269|124|1	2409|2394	5.78	0.0557127	2	0.74	0.58	0.95	0.98	0.06	15.75
STAGE3	6	0.035|0.032	4676|337|8|3714|229|11	5021|3954	5.49	0.0642218	2	0.85	0.72	1.01	1.98	0.79	5.00
NHS2	2	0.039|0.025	1029|77|5|534|20|4	1111|558	8.05	0.0178454	2	0.50	0.30	0.83	1.55	0.42	5.81
NOR	24	0.036|0.043	460|36|0|472|44|0	496|516									
PBCS2	13	0.032|0.030	1648|112|1|1358|83|2	1761|1443	1.00	0.6056968	2	0.91	0.68	1.22	2.51	0.23	28.01
RADT	24	0.037|0.035	920|74|0|723|54|0	994|777									
WHS	7	0.032|0.029	619|38|2|627|28|5	659|660	2.80	0.2468477	2	0.73	0.44	1.20	2.45	0.47	12.70
PBCS 1+2	9	0.032|0.027	2121|145|1|1997|112|2	2267|2111	2.59	0.2733992	2	0.83	0.64	1.07	2.39	0.22	26.51

Locus rs7121523 Alleles G|A Chr 11p15.4 Location Neighborhood 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.158|0.162	7275|2815|227|6636|2460|293	10317|9389	17.87	1.32E-04	2	0.96	0.90	1.02	1.42	1.19	1.70
NHS	12	0.158|0.169	808|306|28|810|283|52	1142|1145	7.89	0.0193181	2	0.92	0.76	1.12	1.84	1.15	2.95
STAGE1-2	1	0.155|0.163	3740|1443|99|3857|1390|191	5282|5438	30.04	3.00E-07	2	0.93	0.85	1.01	1.87	1.46	2.40
STAGE2	1	0.154|0.161	2932|1137|71|3047|1107|139	4140|4293	22.20	1.51E-05	2	0.93	0.84	1.03	1.89	1.41	2.52
CPSII	13	0.173|0.177	368|161|13|366|147|21	542|534	2.72	0.2563467	2	0.89	0.68	1.17	1.61	0.79	3.29
PBCS1	8	0.138|0.156	373|123|8|481|165|22	504|668	3.59	0.1657869	2	0.99	0.75	1.30	2.17	0.95	4.98
PLCO	12	0.156|0.166	688|270|17|661|259|28	975|948	2.93	0.2316154	2	0.98	0.80	1.21	1.69	0.91	3.14
WHI	4	0.154|0.159	1704|664|40|1710|606|77	2408|2393	14.40	0.0007453	2	0.91	0.80	1.04	1.93	1.31	2.84
STAGE3	23	0.162|0.161	3535|1372|127|2779|1071|102	5034|3952	0.09	0.9583588	2	0.99	0.90	1.09	1.03	0.79	1.35
NHS2	11	0.167|0.159	777|314|30|402|141|19	1121|562	2.09	0.3520301	2	0.87	0.69	1.10	1.23	0.68	2.21
NOR	22	0.172|0.177	342|136|17|347|147|17	495|511	0.18	0.9157125	2	1.06	0.80	1.40	0.97	0.48	1.93
PBCS2	23	0.148|0.151	1266|440|38|1023|369|31	1744|1423	0.15	0.9280893	2	1.03	0.88	1.21	1.01	0.62	1.64
RADT	18	0.177|0.172	668|301|25|527|223|21	994|771	0.39	0.8244529	2	0.94	0.77	1.16	1.08	0.59	1.95
WHS	19	0.158|0.160	482|181|17|480|191|14	680|685	0.56	0.7576354	2	1.06	0.83	1.35	0.82	0.40	1.69
PBCS 1+2	14	0.146|0.153	1639|563|47|1504|533|53	2249|2090	1.09	0.5784978	2	1.04	0.91	1.19	1.21	0.81	1.81

Locus rs17570439 Alleles T|C Chr 1p34.2 Location Neighborhood 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.209|0.226	6425|3413|446|5639|3268|487	10284|9394	16.69	2.37E-04	2	1.09	1.03	1.16	1.26	1.10	1.44
NHS	5	0.204|0.244	719|381|42|654|424|67	1142|1145	12.25	0.002189	2	1.24	1.04	1.47	1.81	1.21	2.71
STAGE1-2	13	0.208|0.229	3286|1798|201|3238|1908|291	5285|5437	19.06	7.27E-05	2	1.08	1.00	1.17	1.48	1.23	1.78
STAGE2	18	0.209|0.225	2567|1417|159|2584|1484|224	4143|4292	9.85	0.0072467	2	1.04	0.95	1.14	1.40	1.13	1.73
CPSII	6	0.196|0.218	343|187|13|329|179|27	543|535	5.32	0.069883	2	0.99	0.77	1.28	2.18	1.10	4.32
PBCS1	15	0.210|0.222	310|179|17|406|228|34	506|668	2.25	0.324107	2	0.94	0.73	1.21	1.51	0.82	2.78
PLCO	14	0.220|0.235	599|323|53|552|346|50	975|948	2.55	0.2792071	2	1.17	0.96	1.42	1.02	0.68	1.53
WHI	9	0.206|0.226	1501|825|83|1438|829|125	2409|2392	9.81	0.0073981	2	1.05	0.93	1.19	1.57	1.18	2.10
STAGE3	8	0.211|0.221	3139|1616|245|2400|1360|196	5000|3956	3.78	0.1513711	2	1.09	1.00	1.20	1.05	0.86	1.28
NHS2	7	0.208|0.226	694|332|60|329|192|28	1086|549	3.43	0.1795429	2	1.23	0.98	1.53	0.98	0.62	1.57
NOR	9	0.210|0.233	310|164|22|301|185|27	496|513	1.68	0.4327657	2	1.16	0.89	1.51	1.28	0.71	2.30
PBCS2	18	0.208|0.216	1111|557|86|891|478|72	1754|1441	0.73	0.6925914	2	1.07	0.92	1.24	1.03	0.74	1.43
RADT	12	0.218|0.221	607|344|45|476|258|43	996|777	1.33	0.5131199	2	0.97	0.79	1.18	1.26	0.81	1.95
WHS	9	0.212|0.221	417|219|32|403|247|26	668|676	2.49	0.2885863	2	1.17	0.93	1.47	0.84	0.49	1.44
PBCS 1+2	15	0.208|0.218	1421|735|103|1298|706|106	2259|2110	1.02	0.5998117	2	1.05	0.92	1.19	1.13	0.85	1.50

Locus	Alleles	Chr	Location	Neighborhood										
rs3134615	G|T	1p34.2		40134653 TRIT1,MYCL1										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.228|0.246	6153|3643|540|5335|3514|552	10336|9401	16.02	0.0003322	2	1.11	1.04	1.18	1.19	1.05	1.05	1.35
NHS	2	0.220|0.263	690|402|50|617|454|74	1142|1145	13.26	0.0013224	2	1.28	1.07	1.52	1.72	1.18	1.18	2.51
STAGE1-2	17	0.228|0.250	3134|1895|256|3048|2068|324	5285|5440	15.53	0.0004253	2	1.12	1.04	1.22	1.31	1.10	1.10	1.55
STAGE2	22	0.230|0.246	2444|1493|206|2431|1614|250	4143|4295	6.01	0.0494166	2	1.09	0.99	1.19	1.22	1.00	1.00	1.48
CPSII	8	0.215|0.236	326|200|17|313|192|30	543|535	4.10	0.1286891	2	1.00	0.78	1.29	1.87	1.00	1.00	3.47
PBCS1	20	0.226|0.238	299|185|22|387|245|37	506|669	0.75	0.6881967	2	0.99	0.78	1.27	1.27	0.73	0.73	2.22
PLCO	5	0.236|0.258	578|334|63|516|375|57	975|948	5.63	0.0597587	2	1.25	1.04	1.52	0.99	0.68	0.68	1.45
WHI	19	0.229|0.248	1421|875|113|1349|904|141	2409|2394	5.46	0.0653218	2	1.09	0.97	1.23	1.31	1.01	1.01	1.70
STAGE3	9	0.229|0.240	3019|1748|284|2287|1449|229	5051|3965	3.19	0.2029829	2	1.08	0.99	1.18	1.06	0.88	0.88	1.28
NHS2	15	0.228|0.233	687|372|72|328|198|31	1131|557	1.43	0.4897763	2	1.12	0.90	1.39	0.90	0.58	0.58	1.40
NOR	11	0.232|0.253	292|179|26|284|200|30	497|514	1.33	0.5148571	2	1.15	0.89	1.49	1.19	0.69	0.69	2.07
PBCS2	19	0.226|0.231	1063|591|102|854|504|81	1756|1439	0.69	0.7071673	2	1.06	0.91	1.23	0.97	0.71	0.71	1.32
RADT	10	0.240|0.246	567|373|51|445|276|52	991|773	1.99	0.3691299	2	0.96	0.78	1.17	1.29	0.86	0.86	1.94
WHS	4	0.221|0.250	410|233|33|376|271|35	676|682	4.36	0.1132782	2	1.27	1.01	1.59	1.15	0.70	0.70	1.90
PBCS 1+2	20	0.226|0.233	1362|776|124|1241|746|117	2262|2104	0.54	0.763415	2	1.05	0.92	1.19	1.04	0.80	0.80	1.36
Locus	Alleles	Chr	Location	Neighborhood										
rs10850145	C|T	12q24.13		112428512										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.095|0.106	8474|1786|86|7536|1776|110	10346|9422	15.39	0.0004547	2	1.12	1.04	1.20	1.47	1.11	1.11	1.96
NHS	7	0.086|0.110	951|386|5|912|215|18	1142|1145	10.66	0.0048321	2	1.22	0.98	1.51	3.84	1.42	1.42	10.42
STAGE1-2	16	0.089|0.107	4388|850|47|4340|1031|67	5285|5438	16.58	2.51E-04	2	1.21	1.10	1.34	1.42	0.98	0.98	2.07
STAGE2	16	0.090|0.106	3437|664|42|3428|816|49	4143|4293	11.00	0.0040939	2	1.21	1.08	1.36	1.14	0.75	0.75	1.73
CPSII	15	0.099|0.107	444|90|9|426|103|6	543|535	1.96	0.3753936	2	1.21	0.88	1.65	0.68	0.24	0.24	1.96
PBCS1	9	0.094|0.113	417|83|6|523|141|5	506|669	3.52	0.1723655	2	1.31	0.97	1.79	0.71	0.21	0.21	2.36
PLCO	9	0.077|0.094	832|135|8|775|167|6	975|948	4.40	0.1108021	2	1.29	1.01	1.66	0.75	0.26	0.26	2.19
WHI	13	0.094|0.111	1982|403|24|1898|459|35	2409|2392	7.09	0.0288232	2	1.19	1.02	1.38	1.51	0.89	0.89	2.56
STAGE3	7	0.100|0.104	4086|937|39|3198|745|43	5062|3986	4.78	0.0917167	2	1.02	0.91	1.13	1.62	1.05	1.05	2.52
NHS2	4	0.103|0.105	905|207|12|456|92|13	1124|561	4.82	0.0897536	2	0.88	0.67	1.16	2.15	0.97	0.97	4.76
NOR	23	0.081|0.090	414|80|0|426|82|5	494|513										
PBCS2	15	0.104|0.108	1412|338|15|1152|282|16	1765|1450	0.95	0.622126	2	1.02	0.86	1.22	1.41	0.69	0.69	2.88
RADT	23	0.105|0.106	799|184|12|622|146|9	995|777	0.01	0.9956746	2	1.01	0.79	1.29	0.97	0.41	0.41	2.34
WHS	24	0.094|0.104	556|128|0|542|143|0	684|685										
PBCS 1+2	11	0.102|0.110	1829|420|21|1673|423|21	2270|2117	1.81	0.4050423	2	1.11	0.95	1.29	1.11	0.60	0.60	2.06
Locus	Alleles	Chr	Location	Neighborhood										
rs2067980	A|G	5p12		45018074										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.159|0.173	7305|2730|274|6459|2624|308	10309|9391	13.39	0.0012355	2	1.08	1.02	1.15	1.29	1.09	1.09	1.52
NHS	11	0.151|0.178	814|311|17|769|342|33	1142|1144	8.23	0.0163487	2	1.17	0.98	1.41	2.07	1.14	1.14	3.75
STAGE1-2	8	0.150|0.173	3805|1375|105|3737|1522|180	5285|5439	22.37	1.39E-05	2	1.12	1.02	1.22	1.70	1.33	1.33	2.17
STAGE2	10	0.150|0.172	2991|1064|88|2968|1180|147	4143|4295	14.92	0.0005752	2	1.10	1.00	1.21	1.62	1.24	1.24	2.13
CPSII	18	0.159|0.164	383|147|13|377|140|18	543|535	0.74	0.6922465	2	0.96	0.73	1.26	1.33	0.64	0.64	2.77
PBCS1	5	0.191|0.227	335|149|22|400|234|35	506|669	4.69	0.0957398	2	1.31	1.01	1.69	1.30	0.74	0.74	2.29
PLCO	13	0.144|0.166	714|241|20|658|265|25	975|948	2.90	0.2350723	2	1.18	0.96	1.45	1.27	0.69	0.69	2.32
WHI	6	0.143|0.161	1761|606|42|1700|616|78	2409|2394	11.83	0.0027031	2	1.05	0.92	1.20	1.92	1.31	1.31	2.81
STAGE3	16	0.169|0.172	3500|1356|169|2722|1105|128	5025|3955	0.97	0.6141958	2	1.05	0.95	1.15	1.00	0.79	0.79	1.27
NHS2	16	0.169|0.156	777|292|42|394|140|16	1111|550	1.04	0.59377	2	0.95	0.75	1.20	0.75	0.42	0.42	1.35
NOR	18	0.142|0.135	364|125|8|382|127|6	497|515	0.63	0.7293478	2	0.95	0.72	1.27	0.66	0.23	0.23	1.95
PBCS2	21	0.190|0.192	1158|519|73|941|441|55	1750|1437	0.51	0.7741054	2	1.05	0.90	1.22	0.94	0.66	0.66	1.35
RADT	5	0.155|0.177	713|256|26|530|216|29	995|775	3.61	0.1645402	2	1.13	0.91	1.40	1.58	0.92	0.92	2.72

WHS	17	0.152|0.166	488|164|20|475|181|22	672|678	1.09	0.5804781	2	1.13	0.89	1.45	1.13	0.61	2.10
PBCS 1+2	10	0.190|0.203	1493|667|95|1341|672|190	2255|2103	2.47	0.2909593	2	1.11	0.97	1.27	1.04	0.77	1.41

Locus rs998592 Alleles Chr Location Neighborhood
G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.424|0.413	3455|4960|1895|3179|4677|1549	10310|9405	12.97	0.0015299	2	1.02	0.96	1.09	0.89	0.82	0.96
NHS	1	0.425|0.431	405|502|233|349|605|191	1140|1145	17.78	1.38E-04	2	1.40	1.16	1.68	0.95	0.75	1.20
STAGE1-2	10	0.436|0.419	1716|2524|1043|1778|2767|895	5283|5440	20.78	3.07E-05	2	1.06	0.98	1.16	0.83	0.75	0.93
STAGE2	13	0.440|0.416	1311|2022|810|1429|2162|704	4143|4295	13.62	0.0011014	2	0.99	0.89	1.09	0.80	0.71	0.91
CPSII	2	0.475|0.415	158|254|131|184|258|93	543|535	7.85	0.019768	2	0.87	0.66	1.15	0.62	0.44	0.87
PBCS1	1	0.415|0.369	186|220|100|264|316|89	506|669	7.49	0.0236278	2	1.01	0.78	1.31	0.65	0.46	0.91
PLCO	22	0.419|0.411	324|485|166|320|476|152	975|948	0.31	0.854972	2	0.99	0.81	1.21	0.93	0.71	1.22
WHI	20	0.450|0.433	729|1192|488|743|1229|422	2409|2394	5.45	0.0656693	2	1.01	0.89	1.15	0.85	0.72	1.00
STAGE3	19	0.412|0.406	1739|2436|853|1402|1912|654	5028|3968	0.41	0.8157005	2	0.98	0.89	1.08	0.96	0.85	1.09
NHS2	20	0.417|0.427	378|542|193|187|267|105	1113|559	0.52	0.7691791	2	1.00	0.79	1.25	1.10	0.82	1.48
NOR	21	0.390|0.400	186|231|77|187|245|84	494|516	0.19	0.9090974	2	1.05	0.80	1.37	1.08	0.74	1.56
PBCS2	22	0.400|0.394	625|849|274|528|682|223	1748|1433	0.46	0.7929432	2	0.95	0.81	1.11	0.95	0.77	1.18
RADT	8	0.439|0.415	313|490|192|268|373|136	995|777	2.25	0.324737	2	0.88	0.71	1.09	0.82	0.63	1.09
WHS	14	0.412|0.408	237|324|117|232|345|106	678|683	1.25	0.5359649	2	1.09	0.86	1.38	0.93	0.67	1.28
PBCS 1+2	8	0.403|0.386	811|1069|373|791|996|312	2253|2099	2.68	0.2623506	2	0.96	0.84	1.10	0.86	0.72	1.03

Locus rs2391406 Alleles Chr Location Neighborhood
T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.371|0.364	4130|4683|1470|3746|4431|1190	10283|9367	12.52	0.0019082	2	1.04	0.98	1.10	0.89	0.81	0.97
NHS	20	0.372|0.363	452|529|160|460|538|146	1141|1144	0.85	0.6553259	2	1.02	0.85	1.21	0.90	0.70	1.17
STAGE1-2	9	0.375|0.359	2110|2378|789|2188|2594|652	5277|5434	20.86	2.96E-05	2	1.05	0.96	1.14	0.80	0.71	0.90
STAGE2	2	0.376|0.358	1658|1849|629|1728|2056|506	4136|4290	21.76	1.88E-05	2	1.06	0.96	1.16	0.77	0.67	0.88
CPSII	4	0.371|0.333	217|240|79|228|251|51	536|530	7.06	0.0293625	2	0.99	0.77	1.29	0.60	0.40	0.90
PBCS1	2	0.387|0.374	195|230|81|242|351|74	506|667	7.05	0.0294556	2	1.20	0.93	1.56	0.75	0.52	1.09
PLCO	2	0.376|0.350	398|416|157|393|445|109	971|947	8.80	0.0122686	2	1.07	0.88	1.30	0.70	0.53	0.93
WHI	14	0.372|0.360	971|1084|353|966|1133|295	2408|2394	6.25	0.0439343	2	1.05	0.93	1.18	0.84	0.70	1.00
STAGE3	21	0.366|0.370	2020|2309|681|1558|1839|538	5010|3935	0.24	0.8853137	2	1.02	0.93	1.12	1.02	0.89	1.16
NHS2	3	0.341|0.379	493|477|140|216|265|80	1110|561	5.37	0.0680617	2	1.27	1.02	1.58	1.31	0.95	1.79
NOR	8	0.366|0.372	207|214|74|201|245|69	495|515	1.89	0.3886415	2	1.18	0.90	1.54	0.96	0.65	1.41
PBCS2	20	0.380|0.382	656|853|236|542|686|203	1745|1431	0.63	0.7284602	2	0.97	0.83	1.13	1.05	0.84	1.31
RADT	17	0.359|0.365	410|454|130|309|368|99	994|776	0.58	0.7483976	2	1.08	0.88	1.32	1.00	0.74	1.35
WHS	1	0.385|0.344	254|311|101|290|275|87	666|652	5.51	0.0636181	2	0.77	0.61	0.98	0.75	0.54	1.05
PBCS 1+2	16	0.381|0.379	851|1079|317|784|1035|277	2247|2096	0.96	0.6172901	2	1.04	0.92	1.19	0.96	0.79	1.16

Locus rs17740709 Alleles Chr Location Neighborhood
A|G 12q21.31 81947471 TMT2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.220|0.215	6248|3554|485|5841|3051|491	10287|9383	12.06	0.0024046	2	0.91	0.86	0.97	1.08	0.95	1.24
NHS	15	0.218|0.212	692|402|48|725|355|65	1142|1145	6.73	0.0344968	2	0.84	0.70	1.00	1.32	0.90	1.95
STAGE1-2	6	0.218|0.214	3201|1869|215|3403|1742|295	5285|5440	22.82	1.11E-05	2	0.87	0.80	0.94	1.29	1.08	1.55
STAGE2	8	0.217|0.215	2509|1467|167|2678|1387|230	4143|4295	16.25	2.96E-04	2	0.88	0.80	0.96	1.29	1.04	1.58
CPSII	11	0.215|0.200	328|197|18|343|170|22	543|535	2.96	0.2281211	2	0.81	0.63	1.05	1.17	0.61	2.24
PBCS1	6	0.242|0.247	282|203|21|383|241|45	506|669	4.36	0.1129269	2	0.89	0.70	1.14	1.60	0.93	2.77
PLCO	17	0.214|0.203	603|326|46|610|291|47	975|948	1.91	0.3854003	2	0.87	0.72	1.06	0.98	0.64	1.51
WHI	8	0.215|0.212	1466|851|92|1504|764|126	2409|2394	10.45	0.0053913	2	0.87	0.77	0.99	1.33	1.01	1.76
STAGE3	14	0.222|0.216	3047|1686|270|2439|1311|196	5003|3946	1.32	0.515731	2	0.97	0.89	1.06	0.90	0.74	1.10
NHS2	17	0.210|0.209	694|349|56|342|183|23	1099|548	0.95	0.6224631	2	1.06	0.85	1.33	0.83	0.50	1.38

NOR	4	0.243|0.205	281|187|27|328|161|25	495|514	5.20	0.0742045	2	0.74	0.57	0.96	0.80	0.45	1.41
PBCS2	17	0.234|0.240	1042|597|112|836|508|91	1751|1435	0.78	0.6787361	2	1.07	0.92	1.24	1.04	0.77	1.39
RADT	11	0.212|0.195	612|339|41|501|250|27	992|778	1.86	0.3954103	2	0.88	0.72	1.08	0.82	0.50	1.36
WHS	20	0.212|0.200	418|214|34|432|209|30	666|671	0.53	0.7685189	2	0.95	0.75	1.19	0.85	0.51	1.42
PBCS 1+2	19	0.236|0.243	1324|799|133|1218|747|136	2256|2101	0.76	0.6844904	2	1.00	0.88	1.14	1.12	0.87	1.44

Locus rs12622050 Alleles G|A Chr 2q11.2 Location 100945886 Neighborhood NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	14	0.223|0.212	6195|3596|493|5841|3084|449	10284|9374	11.50	0.0031813	2	0.90	0.85	0.96	0.96	0.84	1.10
NHS	16	0.220|0.189	695|392|55|754|349|42	1142|1145	6.36	0.0416035	2	0.82	0.69	0.98	0.71	0.47	1.07
STAGE1-2	14	0.220|0.201	3183|1875|227|3482|1721|235	5285|5438	18.93	7.75E-05	2	0.83	0.77	0.91	0.93	0.77	1.13
STAGE2	11	0.220|0.205	2488|1483|172|2728|1372|193	4143|4293	14.71	0.0006407	2	0.84	0.76	0.92	1.00	0.81	1.24
CPSII	3	0.217|0.205	323|203|16|341|165|27	542|533	7.67	0.021643	2	0.75	0.58	0.97	1.56	0.82	2.97
PBCS1	11	0.244|0.239	284|197|25|391|235|42	506|668	2.83	0.2430167	2	0.85	0.66	1.08	1.23	0.72	2.08
PLCO	8	0.229|0.199	577|350|48|606|307|35	975|948	4.99	0.0824924	2	0.84	0.70	1.02	0.68	0.43	1.08
WHI	11	0.213|0.196	1476|838|95|1557|734|102	2409|2393	9.37	0.0092175	2	0.83	0.73	0.94	1.01	0.76	1.35
STAGE3	24	0.225|0.227	3013|1723|266|2360|1365|213	5002|3938	0.06	0.9681537	2	0.99	0.90	1.08	1.01	0.83	1.22
NHS2	12	0.200|0.204	712|332|53|344|181|21	1097|546	1.98	0.3715158	2	1.13	0.91	1.41	0.82	0.49	1.39
NOR	16	0.221|0.219	297|179|20|314|175|25	496|514	0.77	0.681121	2	0.92	0.71	1.20	1.17	0.64	2.16
PBCS2	24	0.252|0.258	980|644|117|793|540|99	1741|1432	0.14	0.9315483	2	1.02	0.88	1.18	1.05	0.79	1.39
RADT	14	0.206|0.205	626|327|41|495|242|38	994|775	0.92	0.6314772	2	0.94	0.77	1.15	1.17	0.74	1.85
WHS	15	0.231|0.214	398|241|35|414|227|30	674|671	1.12	0.5699063	2	0.90	0.72	1.14	0.82	0.50	1.37
PBCS 1+2	21	0.250|0.252	1263|839|142|1183|773|142	2244|2098	0.52	0.7706926	2	0.99	0.87	1.12	1.08	0.84	1.39

Locus rs10941679 Alleles A|G Chr 5p12 Location 44742255 Neighborhood

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	15	0.259|0.280	3015|2105|370|2365|1859|351	5490|4575	10.39	0.0055424	2	1.12	1.03	1.22	1.20	1.03	1.41
STAGE3	2	0.259|0.278	2759|1911|343|2048|1601|295	5013|3944	8.41	0.0149113	2	1.13	1.03	1.23	1.16	0.98	1.38
NHS2	10	0.256|0.280	607|415|73|286|220|44	1095|550	2.12	0.3458398	2	1.13	0.91	1.40	1.28	0.86	1.91
NOR	12	0.303|0.282	239|213|44|265|210|40	496|515	1.27	0.5290934	2	0.89	0.69	1.15	0.81	0.51	1.29
PBCS2	2	0.259|0.276	969|667|121|737|605|94	1757|1436	5.56	0.0621397	2	1.19	1.03	1.38	1.05	0.79	1.40
RADT	1	0.236|0.290	575|373|49|395|307|71	997|773	16.06	0.0003264	2	1.20	0.98	1.47	2.14	1.45	3.15
WHS	11	0.266|0.262	369|243|56|365|259|46	668|670	1.52	0.4672395	2	1.08	0.86	1.35	0.83	0.55	1.26
PBCS 1+2	2	0.259|0.281	1225|861|148|1054|863|150	2234|2067	6.16	0.0459654	2	1.16	1.03	1.32	1.17	0.92	1.50

Locus rs9491859 Alleles C|A Chr 6q22.33 Location 128106056 Neighborhood C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	16	0.355|0.370	4295|4686|1313|3761|4282|1328	10294|9371	10.18	0.0061722	2	1.04	0.98	1.11	1.16	1.06	1.26
NHS	13	0.356|0.381	459|552|130|447|523|175	1141|1145	7.22	0.0270581	2	0.97	0.81	1.16	1.37	1.05	1.78
STAGE1-2	5	0.349|0.375	2226|2433|625|2178|2443|817	5284|5438	23.45	8.08E-06	2	1.03	0.95	1.12	1.34	1.18	1.51
STAGE2	7	0.346|0.373	1767|1881|495|1731|1920|642	4143|4293	17.07	1.96E-04	2	1.04	0.95	1.15	1.33	1.16	1.52
CPSII	10	0.350|0.339	220|266|57|238|231|66	543|535	3.58	0.167089	2	0.80	0.62	1.04	1.06	0.71	1.58
PBCS1	18	0.345|0.356	216|231|59|287|287|94	506|668	1.29	0.5236214	2	0.92	0.72	1.19	1.14	0.78	1.66
PLCO	4	0.333|0.374	437|427|111|378|430|140	975|948	6.65	0.0359321	2	1.16	0.96	1.41	1.44	1.08	1.92
WHI	7	0.351|0.383	1018|1093|298|933|1089|371	2409|2393	11.40	0.0033427	2	1.08	0.96	1.23	1.36	1.14	1.62
STAGE3	10	0.362|0.364	2070|2257|688|1584|1840|511	5015|3935	2.60	0.2718635	2	1.06	0.97	1.16	0.97	0.85	1.11
NHS2	24	0.368|0.367	459|501|163|226|249|79	1123|554	0.02	0.9880898	2	1.01	0.81	1.26	0.99	0.72	1.35
NOR	13	0.372|0.371	200|212|75|200|232|70	487|502	1.05	0.5915189	2	1.11	0.84	1.45	0.93	0.63	1.36
PBCS2	16	0.349|0.349	744|779|218|599|660|169	1741|1428	0.83	0.6597734	2	1.05	0.90	1.22	0.95	0.76	1.19
RADT	16	0.374|0.366	391|459|141|311|366|102	991|779	0.62	0.7348216	2	0.99	0.80	1.21	0.89	0.66	1.20
WHS	8	0.363|0.383	276|306|91|248|333|91	673|672	2.70	0.2587927	2	1.21	0.96	1.53	1.11	0.79	1.56

PBCS 1+2 24 0.348|0.351 959|1006|277|885|946|263 2242|2094 0.12 0.9409957 2 1.02 0.90 1.16 1.02 0.84 1.24

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PAR3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.448|0.433	3162|5069|2091|3036|4591|1771	10322|9398	9.27	0.0096863	2	0.94	0.88	1.01	0.88	0.81	0.96
NHS	17	0.470|0.439	312|586|244|357|569|218	1142|1144	4.43	0.1092557	2	0.85	0.70	1.03	0.79	0.62	1.00
STAGE1-2	20	0.454|0.430	1574|2619|1092|1768|2664|1006	5285|5438	13.19	0.0013687	2	0.90	0.83	0.99	0.82	0.73	0.91
STAGE2	19	0.450|0.427	1262|2033|848|1411|2095|788	4143|4294	9.24	0.009866	2	0.92	0.83	1.01	0.83	0.73	0.94
CPSII	12	0.471|0.436	152|271|120|172|259|104	543|535	2.74	0.2537532	2	0.84	0.63	1.10	0.76	0.54	1.07
PBCS1	10	0.483|0.446	138|247|121|200|340|128	506|668	3.14	0.2084452	2	0.97	0.74	1.28	0.76	0.54	1.06
PLCO	10	0.449|0.419	298|478|199|319|464|165	975|948	4.04	0.1327715	2	0.89	0.73	1.09	0.77	0.59	0.99
WHI	23	0.443|0.424	755|1175|479|803|1153|438	2409|2394	3.47	0.176377	2	0.92	0.81	1.05	0.86	0.73	1.01
STAGE3	20	0.442|0.437	1588|2454|1000|1269|1929|767	5042|3965	0.32	0.8540489	2	0.99	0.90	1.09	0.97	0.86	1.09
NHS2	19	0.440|0.436	363|535|227|175|278|104	1125|557	0.92	0.6315455	2	1.08	0.85	1.36	0.95	0.71	1.28
NOR	9	0.391|0.401	184|235|76|188|240|86	495|514	0.35	0.8412894	2	1.01	0.77	1.32	1.11	0.77	1.61
PBCS2	7	0.457|0.441	518|863|368|456|695|287	1749|1438	1.91	0.3852815	2	0.91	0.78	1.07	0.88	0.72	1.07
RADT	15	0.454|0.444	295|489|205|243|378|156	989|777	0.66	0.7180856	2	0.93	0.75	1.16	0.90	0.69	1.18
WHS	12	0.424|0.446	228|332|124|207|338|134	684|679	1.44	0.4877259	2	1.12	0.88	1.43	1.19	0.87	1.62
PBCS 1+2	5	0.463|0.442	656|1106|488|655|1033|413	2250|2101	4.34	0.1143707	2	0.93	0.81	1.06	0.83	0.70	0.99

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.261|0.275	5011|3522|635|4351|3283|626	9168|8260	8.55	0.0139378	2	1.07	1.01	1.14	1.15	1.02	1.30
STAGE1-2	12	0.252|0.281	2304|1588|250|2220|1730|341	4142|4291	19.83	4.95E-05	2	1.14	1.04	1.25	1.42	1.19	1.69
STAGE2	3	0.252|0.281	2304|1588|250|2220|1730|341	4142|4291	19.84	4.92E-05	2	1.14	1.04	1.25	1.42	1.19	1.69
CPSII	16	0.247|0.273	309|198|35|287|202|45	542|534	1.89	0.3890061	2	1.12	0.87	1.45	1.34	0.83	2.15
PBCS1	19	0.246|0.265	293|177|36|368|245|54	506|667	1.17	0.5566168	2	1.12	0.87	1.43	1.21	0.77	1.92
PLCO	1	0.230|0.291	569|364|42|481|381|85	975|947	21.56	2.09E-05	2	1.26	1.04	1.52	2.39	1.61	3.54
WHI	21	0.263|0.283	1302|949|158|1217|998|179	2409|2394	5.21	0.0738251	2	1.12	1.00	1.27	1.21	0.96	1.52
STAGE3	18	0.269|0.267	2707|1938|385|2132|1554|285	5030|3971	0.49	0.7810077	2	1.01	0.93	1.11	0.96	0.81	1.13
NHS2	14	0.269|0.281	611|397|100|293|218|48	1108|559	1.57	0.4568389	2	1.14	0.92	1.42	1.00	0.69	1.45
NOR	17	0.248|0.264	276|192|27|278|204|34	495|516	0.68	0.7135123	2	1.06	0.82	1.37	1.23	0.72	2.10
PBCS2	10	0.273|0.261	926|696|131|778|567|92	1753|1437	1.57	0.4554409	2	0.97	0.84	1.12	0.83	0.63	1.11
RADT	20	0.273|0.267	524|397|73|418|302|56	994|776	0.24	0.8851413	2	0.95	0.78	1.16	0.97	0.67	1.42
WHS	23	0.268|0.273	370|256|54|365|263|55	680|683	0.12	0.9411771	2	1.04	0.83	1.30	1.03	0.69	1.54
PBCS 1+2	22	0.267|0.262	1219|869|167|1145|811|146	2255|2102	0.48	0.7881142	2	1.01	0.89	1.14	0.93	0.73	1.17

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.371|0.365	4056|4814|1411|3845|4226|1308	10281|9379	7.37	0.0250979	2	0.92	0.87	0.98	0.97	0.89	1.06
NHS	14	0.382|0.370	429|553|160|475|492|178	1142|1145	7.15	0.0279917	2	0.79	0.66	0.95	0.98	0.76	1.26
STAGE1-2	4	0.383|0.367	1953|2611|715|2229|2429|778	5279|5436	25.87	2.42E-06	2	0.81	0.75	0.88	0.94	0.83	1.06
STAGE2	5	0.383|0.366	1524|2058|555|1754|1937|600	4137|4291	19.03	7.39E-05	2	0.81	0.74	0.89	0.93	0.81	1.06
CPSII	14	0.377|0.374	216|242|83|205|260|70	541|535	2.25	0.3252166	2	1.15	0.89	1.50	0.89	0.61	1.30
PBCS1	17	0.375|0.353	193|244|67|284|298|87	504|669	1.66	0.4360376	2	0.85	0.66	1.09	0.89	0.61	1.30
PLCO	11	0.371|0.355	371|484|120|395|430|121	975|946	3.84	0.1469509	2	0.82	0.68	1.00	0.92	0.68	1.23
WHI	2	0.385|0.374	871|1215|320|962|1071|359	2406|2392	15.81	0.0003692	2	0.80	0.70	0.90	1.01	0.84	1.21
STAGE3	11	0.359|0.362	2103|2202|697|1617|1799|530	5002|3946	2.57	0.2760269	2	1.07	0.98	1.17	1.00	0.88	1.14
NHS2	23	0.364|0.374	446|495|150|219|253|80	1091|552	0.30	0.8625921	2	1.04	0.83	1.30	1.09	0.79	1.49
NOR	7	0.329|0.316	225|216|55|233|237|44	496|514	1.95	0.3769285	2	1.05	0.81	1.37	0.77	0.50	1.20
PBCS2	6	0.359|0.375	732|784|238|563|671|204	1754|1438	2.06	0.3569089	2	1.11	0.95	1.29	1.12	0.90	1.39

RADT	21	0.371|0.380	405|441|148|303|353|118	994|774	0.24	0.8874426	2	1.05	0.86	1.29	1.03	0.78	1.38
WHS	6	0.358|0.339	295|266|106|299|285|84	667|668	3.26	0.1960254	2	1.06	0.84	1.33	0.78	0.56	1.08
PBCS 1+2	23	0.362|0.368	925|1029|304|846|967|291	2258|2104	0.26	0.8785093	2	1.02	0.90	1.16	1.05	0.87	1.26

Locus rs37936 Alleles A|G Chr 7q21.11 Location Neighborhood 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.384|0.371	3916|4697|1559|3704|4197|1330	10172|9231	6.95	0.0308978	2	0.94	0.89	1.00	0.90	0.82	0.98
NHS	6	0.400|0.365	403|541|178|474|476|171	1122|1121	10.73	0.0046803	2	0.74	0.62	0.89	0.80	0.62	1.03
STAGE1-2	11	0.400|0.368	1731|2149|797|1897|2074|674	4677|4645	20.55	3.44E-05	2	0.88	0.80	0.96	0.76	0.68	0.86
STAGE2	9	0.400|0.369	1328|1608|619|1423|1598|503	3555|3524	15.92	0.0003484	2	0.92	0.84	1.02	0.75	0.65	0.87
CPSII	22	0.387|0.373	199|251|79|202|249|70	529|521	0.39	0.8208258	2	0.98	0.76	1.28	0.89	0.61	1.30
PLCO	21	0.378|0.376	379|431|146|373|394|147	956|914	0.71	0.6994731	2	0.92	0.76	1.13	1.00	0.76	1.32
WHI	1	0.409|0.368	857|1064|430|933|1084|316	2351|2333	21.16	2.55E-05	2	0.93	0.82	1.06	0.67	0.57	0.80
STAGE3	17	0.371|0.377	1992|2333|700|1552|1840|573	5025|3965	0.67	0.7146396	2	1.01	0.93	1.11	1.06	0.93	1.20
NHS2	8	0.366|0.398	457|508|157|212|261|96	1122|569	3.27	0.1947394	2	1.11	0.89	1.38	1.32	0.97	1.78
NOR	14	0.364|0.345	202|227|67|221|233|61	496|515	0.94	0.6246957	2	0.93	0.72	1.22	0.82	0.55	1.23
PBCS2	5	0.368|0.364	706|782|248|568|669|183	1736|1420	2.48	0.2890305	2	1.07	0.92	1.24	0.90	0.72	1.12
RADT	6	0.393|0.403	356|496|143|283|364|132	995|779	2.38	0.3045417	2	0.94	0.76	1.15	1.16	0.87	1.55
WHS	13	0.362|0.378	271|320|85|268|313|101	676|682	1.42	0.4911797	2	0.99	0.78	1.24	1.20	0.86	1.68
PBCS 1+2	12	0.367|0.364	899|997|310|823|952|266	2206|2041	1.53	0.4642402	2	1.05	0.92	1.19	0.93	0.77	1.13

Locus rs12608723 Alleles A|G Chr 19q13.11 Location Neighborhood 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.136|0.128	7735|2378|2177|1555|2085|163	10330|9403	6.94	0.0311332	2	0.94	0.88	1.01	0.80	0.65	0.99
NHS	9	0.153|0.123	819|296|27|877|252|15	1142|1144	9.79	0.0074816	2	0.79	0.65	0.96	0.50	0.26	0.94
STAGE1-2	19	0.143|0.126	3888|1281|116|4158|1190|91	5285|5439	13.27	0.0013148	2	0.87	0.79	0.95	0.73	0.56	0.97
STAGE2	21	0.140|0.127	3069|985|89|3281|938|76	4143|4295	6.30	0.0428818	2	0.89	0.80	0.99	0.81	0.59	1.10
CPSII	9	0.140|0.120	398|138|7|417|108|10	543|535	3.66	0.1602449	2	0.77	0.58	1.03	1.39	0.52	3.72
PBCS1	13	0.153|0.129	364|129|13|510|146|13	506|669	2.47	0.2913249	2	0.81	0.62	1.07	0.75	0.34	1.66
PLCO	20	0.132|0.124	738|216|21|732|196|20	975|948	0.79	0.6733434	2	0.90	0.73	1.13	1.00	0.53	1.87
WHI	22	0.141|0.128	1783|572|54|1818|540|36	2409|2394	4.82	0.089933	2	0.93	0.81	1.06	0.65	0.43	1.00
STAGE3	15	0.129|0.132	3849|1100|101|2997|901|72	5050|3970	1.11	0.5749959	2	1.04	0.94	1.15	0.91	0.66	1.23
NHS2	21	0.126|0.123	869|243|21|433|113|12	1133|558	0.49	0.7825961	2	0.93	0.72	1.20	1.15	0.56	2.36
NOR	1	0.128|0.167	380|103|12|356|148|12	495|516	8.52	0.014114	2	1.54	1.15	2.06	1.11	0.49	2.52
PBCS2	14	0.124|0.118	1344|368|32|1120|300|20	1744|1440	0.97	0.6157104	2	0.97	0.82	1.16	0.76	0.43	1.34
RADT	22	0.138|0.142	736|239|17|573|191|15	992|779	0.06	0.9724619	2	1.00	0.80	1.25	1.09	0.54	2.21
WHS	16	0.135|0.129	520|147|19|515|149|13	686|677	1.10	0.5758936	2	1.02	0.79	1.33	0.69	0.34	1.41
PBCS 1+2	7	0.130|0.120	1706|494|45|1630|440|33	2245|2103	2.78	0.2492348	2	0.92	0.80	1.07	0.74	0.47	1.16

Locus rs3817198 Alleles T|C Chr 11p15.5 Location Neighborhood 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.322|0.332	4732|4516|1068|4222|4118|1068	10316|9408	5.46	0.0651028	2	1.02	0.96	1.08	1.12	1.02	1.23
NHS	19	0.318|0.330	524|510|108|514|505|125	1142|1144	1.25	0.5355728	2	1.01	0.85	1.21	1.17	0.88	1.56
STAGE1-2	23	0.325|0.341	2407|2312|562|2371|2415|643	5281|5429	5.19	0.0745837	2	1.06	0.98	1.15	1.15	1.01	1.31
STAGE2	23	0.327|0.344	1883|1802|454|1857|1910|518	4139|4285	4.32	0.1156018	2	1.07	0.98	1.17	1.15	0.99	1.32
CPSII	21	0.334|0.345	243|231|64|235|227|70	538|532	0.47	0.792476	2	1.02	0.79	1.32	1.14	0.78	1.69
PBCS1	21	0.319|0.333	229|228|47|292|299|71	504|662	0.55	0.7587576	2	1.00	0.78	1.28	1.16	0.77	1.76
PLCO	6	0.335|0.344	440|417|118|397|449|101	975|947	5.38	0.0679398	2	1.19	0.99	1.45	0.88	0.65	1.20
WHI	18	0.326|0.346	1097|1051|260|1047|1038|309	2408|2394	5.64	0.0595026	2	1.04	0.92	1.17	1.25	1.04	1.51
STAGE3	12	0.319|0.322	2324|2205|506|1845|1706|426	5035|3977	1.67	0.4343521	2	0.98	0.89	1.07	1.07	0.93	1.24
NHS2	13	0.317|0.311	518|491|109|277|232|61	1118|570	1.67	0.4332142	2	0.88	0.71	1.09	1.05	0.74	1.48

NOR	6	0.262|0.290	269|194|33|258|215|42	496|515	2.10	0.3496641	2	1.16	0.90	1.50	1.33	0.82	2.17
PBCS2	12	0.330|0.339	789|789|189|634|637|171	1767|1442	1.08	0.5823481	2	1.00	0.86	1.16	1.13	0.89	1.42
RADT	9	0.338|0.317	442|434|119|366|331|81	995|778	2.13	0.3447019	2	0.91	0.74	1.11	0.80	0.59	1.10
WHS	10	0.310|0.322	306|297|56|310|291|71	659|672	1.73	0.421129	2	0.97	0.77	1.21	1.25	0.85	1.84
PBCS 1+2	13	0.328|0.336	1019|1016|236|932|933|241	2271|2106	1.43	0.4888131	2	1.01	0.89	1.14	1.13	0.92	1.38

Locus rs7936636 Alleles C|T Chr 11p11.2 Location 44397546 Neighborhood 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.254|0.246	5706|3954|643|5366|3460|582	10303|9408	5.46	0.0652593	2	0.93	0.88	0.99	0.97	0.86	1.09
NHS	18	0.256|0.240	635|430|77|673|395|77	1142|1145	2.67	0.2634246	2	0.86	0.73	1.03	0.94	0.68	1.32
STAGE1-2	15	0.263|0.244	2852|2086|344|3144|1940|355	5282|5439	17.24	1.80E-04	2	0.84	0.78	0.91	0.94	0.80	1.10
STAGE2	12	0.264|0.245	2217|1656|267|2471|1545|278	4140|4294	14.70	0.0006433	2	0.84	0.77	0.92	0.94	0.79	1.12
CPSII	1	0.266|0.233	286|224|32|323|175|37	542|535	8.60	0.0135835	2	0.69	0.53	0.89	1.01	0.61	1.67
PBCS1	12	0.247|0.226	284|193|28|406|222|40	505|668	2.70	0.2595978	2	0.81	0.63	1.04	0.99	0.59	1.66
PLCO	7	0.263|0.249	526|385|64|546|332|70	975|948	5.06	0.0797279	2	0.81	0.67	0.98	1.05	0.73	1.51
WHI	12	0.270|0.247	1272|973|163|1358|890|146	2408|2394	7.34	0.02545	2	0.86	0.76	0.96	0.84	0.66	1.07
STAGE3	13	0.246|0.249	2854|1868|299|2222|1521|226	5021|3969	1.46	0.4813519	2	1.05	0.97	1.15	1.00	0.83	1.20
NHS2	5	0.266|0.235	598|438|77|330|197|33	1113|560	4.11	0.1278142	2	0.82	0.66	1.01	0.78	0.50	1.19
NOR	2	0.192|0.237	326|153|19|301|185|30	498|516	6.54	0.0379589	2	1.32	1.01	1.72	1.75	0.96	3.19
PBCS2	3	0.245|0.264	993|643|105|769|569|94	1741|1432	3.46	0.1771562	2	1.14	0.98	1.32	1.16	0.86	1.55
RADT	7	0.254|0.240	553|376|64|442|301|37	993|780	2.30	0.316387	2	1.00	0.82	1.22	0.72	0.47	1.11
WHS	22	0.241|0.244	384|258|34|380|269|32	676|681	0.29	0.8651925	2	1.05	0.84	1.32	0.95	0.58	1.57
PBCS 1+2	18	0.245|0.252	1277|836|133|1175|790|135	2246|2100	0.85	0.6546002	2	1.04	0.91	1.18	1.11	0.86	1.44

Locus rs4666451 Alleles G|A Chr 2p24.1 Location 19150424 Neighborhood 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.391|0.382	3412|4325|1424|3148|3915|1197	9161|8260	4.15	0.1254081	2	0.97	0.91	1.04	0.91	0.83	1.00
STAGE1-2	22	0.398|0.376	1509|1968|666|1657|2045|593	4143|4295	10.70	0.0047469	2	0.94	0.86	1.03	0.81	0.71	0.92
STAGE2	17	0.398|0.376	1509|1968|666|1657|2045|593	4143|4295	10.16	0.006234	2	0.94	0.86	1.03	0.81	0.71	0.92
CPSII	7	0.394|0.400	201|256|86|177|288|70	543|535	4.69	0.0959408	2	1.26	0.96	1.64	0.90	0.62	1.31
PBCS1	14	0.409|0.380	176|246|84|257|316|96	506|669	2.36	0.3075885	2	0.84	0.65	1.09	0.79	0.55	1.13
PLCO	16	0.393|0.373	355|474|146|363|462|123	975|948	1.92	0.3821783	2	0.94	0.77	1.14	0.82	0.62	1.09
WHI	15	0.397|0.372	890|1125|394|950|1105|339	2409|2394	6.00	0.0498254	2	0.92	0.81	1.04	0.81	0.68	0.96
STAGE3	22	0.386|0.388	1905|2358|758|1491|1874|604	5021|3969	0.13	0.9390528	2	1.01	0.93	1.11	1.02	0.90	1.16
NHS2	22	0.382|0.384	428|504|169|211|263|82	1101|556	0.36	0.8365835	2	1.06	0.85	1.32	0.98	0.72	1.34
NOR	20	0.363|0.355	201|230|65|214|238|64	496|516	0.26	0.8785451	2	0.96	0.74	1.26	0.90	0.61	1.35
PBCS2	9	0.399|0.411	621|858|268|504|692|247	1747|1443	1.70	0.4270595	2	1.00	0.85	1.16	1.13	0.92	1.40
RADT	13	0.382|0.370	389|452|154|309|358|108	995|775	1.17	0.5559348	2	1.00	0.81	1.22	0.86	0.64	1.15
WHS	21	0.380|0.390	266|314|102|253|323|103	682|679	0.45	0.7973041	2	1.08	0.86	1.36	1.06	0.77	1.47
PBCS 1+2	17	0.402|0.401	795|1103|352|761|1004|343	2250|2108	0.95	0.6220754	2	0.95	0.84	1.09	1.03	0.86	1.23

adj_trend

Locus rs11249433 Alleles T|C Chr 1p11.2 Location 120982136 Neighborhood LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.393|0.426	3826|4800|1637|3102|4520|1713	10263|9335	41.85	9.83E-11	1	1.14	1.10	1.19	1.31	1.20	1.42
NHS	2	0.388|0.440	425|541|170|358|563|220	1136|1141	12.57	0.0003917	1	1.24	1.10	1.40	1.54	1.21	1.95
STAGE1-2	4	0.403|0.432	1899|2492|874|1732|2693|994	5265|5419	20.17	7.10E-06	1	1.13	1.07	1.20	1.28	1.15	1.43
STAGE2	8	0.407|0.430	1474|1951|704|1374|2130|774	4129|4278	10.43	0.001238	1	1.11	1.04	1.18	1.22	1.08	1.39
CPSII	5	0.378|0.417	220|235|88|178|267|89	543|534	2.90	0.0885359	1	1.16	0.98	1.38	1.35	0.96	1.90
PBCS1	21	0.387|0.393	195|230|81|243|326|100	506|669	0.12	0.7244935	1	1.03	0.87	1.22	1.06	0.76	1.49
PLCO	23	0.420|0.421	324|476|169|315|465|165	969|945	0.00	0.9928868	1	1.00	0.88	1.14	1.00	0.77	1.30

WHI	2	0.407|0.444	857|1133|411|727|1192|462	2401|2381	13.67	2.17E-04	1	1.17	1.07	1.26	1.36	1.15	1.60
STAGE3	1	0.383|0.417	1931|2310|763|1370|1827|719	5004|3916	21.48	3.58E-06	1	1.15	1.09	1.22	1.33	1.18	1.50
NHS2	1	0.395|0.446	418|522|182|179|251|120	1122|550	7.75	0.0053649	1	1.23	1.06	1.41	1.50	1.13	2.00
NOR	7	0.380|0.408	184|242|66|180|244|86	492|510	1.43	0.2313927	1	1.12	0.93	1.34	1.25	0.87	1.80
PBCS2	1	0.362|0.398	719|778|240|518|661|231	1737|1410	9.44	0.002127	1	1.17	1.06	1.30	1.38	1.12	1.69
USRT	5	0.385|0.410	387|443|159|271|371|132	989|774	2.50	0.1138912	1	1.11	0.97	1.28	1.24	0.95	1.63
WHS	3	0.419|0.446	223|325|116|222|300|150	664|672	1.91	0.1664305	1	1.11	0.96	1.29	1.24	0.92	1.67
PBCS 1+2	1	0.368|0.397	910|1006|321|761|987|331	2237|2079	7.06	0.0078915	1	1.12	1.03	1.23	1.26	1.06	1.50

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.239|0.218	6009|3649|640|5718|3255|422	10298|9395	23.79	1.07E-06	1	0.89	0.85	0.93	0.79	0.72	0.87
NHS	11	0.244|0.213	660|406|76|703|394|47	1142|1144	6.25	0.0124524	1	0.84	0.73	0.96	0.70	0.53	0.93
STAGE1-2	2	0.239|0.212	3092|1863|330|3354|1858|226	5285|5438	20.91	4.81E-06	1	0.86	0.81	0.92	0.74	0.65	0.84
STAGE2	2	0.237|0.212	2432|1457|254|2651|1464|179	4143|4294	14.87	1.15E-04	1	0.87	0.81	0.93	0.75	0.65	0.87
CPSII	14	0.235|0.222	319|193|31|325|182|28	543|535	0.53	0.4645326	1	0.93	0.76	1.14	0.86	0.57	1.29
PBCS1	6	0.242|0.213	291|185|30|409|234|25	506|668	2.68	0.1018883	1	0.85	0.69	1.03	0.72	0.48	1.07
PLCO	5	0.238|0.215	576|334|65|576|336|36	975|948	2.87	0.0900572	1	0.88	0.75	1.02	0.77	0.57	1.04
WHI	5	0.235|0.209	1416|854|139|1492|801|101	2409|2394	8.69	0.0031977	1	0.86	0.78	0.95	0.75	0.62	0.91
STAGE3	4	0.240|0.226	2918|1789|310|2366|1399|195	5017|3960	5.19	0.0226667	1	0.92	0.86	0.99	0.85	0.74	0.98
NHS2	14	0.234|0.226	664|362|77|336|187|32	1103|555	0.24	0.6266698	1	0.96	0.81	1.13	0.92	0.66	1.28
NOR	3	0.257|0.215	271|195|30|319|171|25	496|515	5.13	0.023573	1	0.79	0.64	0.97	0.62	0.41	0.94
PBCS2	8	0.236|0.226	1016|637|94|850|514|66	1747|1430	0.98	0.3232239	1	0.94	0.84	1.06	0.89	0.70	1.13
USRT	14	0.243|0.232	572|357|62|459|275|43	991|777	0.24	0.6220236	1	0.96	0.82	1.12	0.92	0.68	1.26
WHS	7	0.244|0.227	395|238|47|402|252|29	680|683	1.11	0.2922478	1	0.91	0.76	1.09	0.83	0.58	1.18
PBCS 1+2	6	0.237|0.222	1306|819|124|1257|746|92	2249|2095	3.02	0.082418	1	0.91	0.83	1.01	0.84	0.68	1.02

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.221|0.241	6270|3545|506|5441|3395|564	10321|9400	21.09	4.37E-06	1	1.12	1.07	1.17	1.25	1.13	1.37
NHS	7	0.215|0.249	693|402|44|652|415|78	1139|1145	7.27	0.0070119	1	1.21	1.05	1.39	1.46	1.11	1.93
STAGE1-2	1	0.216|0.243	3227|1823|226|3147|1934|354	5276|5435	21.13	4.28E-06	1	1.16	1.09	1.24	1.35	1.19	1.53
STAGE2	4	0.216|0.241	2534|1421|182|2495|1519|276	4137|4290	14.24	1.61E-04	1	1.15	1.07	1.23	1.32	1.14	1.52
CPSII	18	0.225|0.236	325|192|26|315|186|33	543|534	0.32	0.5741513	1	1.06	0.87	1.30	1.12	0.75	1.68
PBCS1	1	0.217|0.263	308|173|23|362|256|47	504|665	5.43	0.0197502	1	1.26	1.04	1.54	1.60	1.08	2.37
PLCO	16	0.223|0.238	577|359|37|546|353|49	973|948	1.01	0.314706	1	1.08	0.93	1.27	1.17	0.86	1.60
WHI	4	0.212|0.239	1499|797|111|1412|818|163	2407|2393	10.04	0.0015331	1	1.17	1.06	1.28	1.36	1.12	1.64
STAGE3	5	0.226|0.237	3043|1724|280|2293|1464|209	5047|3966	3.26	0.0710771	1	1.07	0.99	1.14	1.14	0.99	1.31
NHS2	15	0.229|0.236	676|383|66|324|211|27	1125|562	0.19	0.6639269	1	1.04	0.88	1.23	1.08	0.77	1.51
NOR	20	0.246|0.241	284|178|33|293|191|28	495|512	0.11	0.7393387	1	0.97	0.79	1.19	0.93	0.62	1.40
PBCS2	10	0.223|0.231	1070|586|98|847|518|74	1754|1439	0.84	0.3588107	1	1.06	0.94	1.19	1.12	0.88	1.41
USRT	3	0.216|0.253	604|350|39|430|293|49	993|772	7.59	0.0058542	1	1.25	1.07	1.47	1.57	1.14	2.16
WHS	24	0.232|0.230	409|227|44|399|251|31	680|681	0.01	0.9121223	1	0.99	0.83	1.18	0.98	0.69	1.40
PBCS 1+2	3	0.221|0.241	1378|757|121|1210|771|122	2256|2103	4.56	0.0327753	1	1.11	1.01	1.23	1.24	1.02	1.52

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.406|0.429	3665|4889|1739|3084|4520|1763	10293|9367	20.00	7.74E-06	1	1.10	1.05	1.14	1.20	1.11	1.30
NHS	5	0.392|0.435	429|513|186|350|583|203	1128|1136	8.48	0.0035956	1	1.19	1.06	1.34	1.42	1.12	1.81
STAGE1-2	15	0.402|0.427	1895|2517|858|1797|2627|1006	5270|5430	12.61	0.0003835	1	1.10	1.05	1.17	1.22	1.09	1.36
STAGE2	17	0.404|0.425	1466|2004|672|1447|2044|803	4142|4294	6.20	0.0127508	1	1.08	1.02	1.15	1.17	1.03	1.32

CPSII	8	0.427|0.399	178|265|99|193|257|85	542|535	1.67	0.1956718	1	0.89	0.75	1.06	0.80	0.56	1.13
PBCS1	2	0.410|0.460	174|249|83|193|337|139	506|669	5.41	0.0200439	1	1.22	1.03	1.45	1.50	1.06	2.10
PLCO	19	0.408|0.422	339|475|160|321|454|173	974|948	0.30	0.5862473	1	1.04	0.91	1.18	1.07	0.83	1.39
WHI	16	0.400|0.420	866|1158|385|827|1120|446	2409|2393	3.96	0.0466445	1	1.09	1.00	1.18	1.18	1.00	1.39
STAGE3	2	0.412|0.433	1770|2375|882|1289|1898|760	5027|3947	8.29	0.0039758	1	1.09	1.03	1.16	1.19	1.06	1.34
NHS2	5	0.402|0.436	413|517|193|178|270|107	1123|555	3.45	0.063066	1	1.15	0.99	1.32	1.31	0.99	1.75
NOR	8	0.438|0.413	156|242|95|177|248|88	493|513	1.35	0.2451895	1	0.90	0.75	1.08	0.81	0.57	1.16
PBCS2	7	0.424|0.435	593|833|328|457|711|271	1754|1439	1.05	0.3056504	1	1.05	0.95	1.16	1.11	0.91	1.35
USRT	2	0.388|0.445	374|467|151|252|358|166	992|776	11.23	0.0008053	1	1.26	1.10	1.44	1.58	1.21	2.07
WHS	11	0.411|0.427	234|316|115|225|311|128	665|664	0.73	0.3936072	1	1.07	0.92	1.24	1.14	0.84	1.55
PBCS 1+2	5	0.421|0.443	767|1079|410|648|1043|407	2256|2098	4.15	0.0415184	1	1.09	1.00	1.19	1.19	1.01	1.42

Locus	Alleles	Chr	Location	Neighborhood										
rs17570439	T|C	1p34.2		40096797 TRIT1										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	hom OR 95% CI_u
STAGE1-3	5	0.209|0.226	6425|3413|446|5639|3268|487	10284|9394	16.18	5.77E-05	1	1.10	1.05	1.16	1.22	1.11	1.34	
NHS	3	0.204|0.244	719|381|42|654|424|67	1142|1145	11.80	0.0005933	1	1.28	1.11	1.48	1.64	1.24	2.18	
STAGE1-2	11	0.208|0.229	3286|1798|201|3238|1908|291	5285|5437	14.25	1.60E-04	1	1.13	1.06	1.21	1.29	1.13	1.47	
STAGE2	19	0.209|0.225	2567|1417|159|2584|1484|224	4143|4292	6.04	0.0139776	1	1.10	1.02	1.18	1.20	1.04	1.40	
CPSII	9	0.196|0.218	343|187|13|329|179|27	543|535	1.47	0.2247015	1	1.14	0.92	1.41	1.30	0.85	2.00	
PBCS1	19	0.210|0.222	310|179|17|406|228|34	506|668	0.20	0.6582249	1	1.05	0.85	1.28	1.10	0.73	1.65	
PLCO	14	0.220|0.235	599|323|53|552|346|50	975|948	1.26	0.2621398	1	1.09	0.94	1.27	1.19	0.88	1.61	
WHI	8	0.206|0.226	1501|825|83|1438|829|125	2409|2392	5.88	0.015278	1	1.13	1.02	1.25	1.28	1.05	1.55	
STAGE3	6	0.211|0.221	3139|1616|245|2400|1360|196	5000|3956	2.71	0.0994748	1	1.06	0.99	1.14	1.13	0.98	1.30	
NHS2	8	0.208|0.226	694|332|60|329|192|28	1086|549	1.37	0.2423672	1	1.11	0.93	1.31	1.23	0.87	1.73	
NOR	6	0.210|0.233	310|164|22|301|185|27	496|513	1.65	0.19877	1	1.15	0.93	1.42	1.32	0.86	2.02	
PBCS2	14	0.208|0.216	1111|557|86|891|478|72	1754|1441	0.49	0.48512	1	1.04	0.93	1.18	1.09	0.86	1.38	
USRT	16	0.218|0.221	607|344|45|476|258|43	996|777	0.16	0.6850219	1	1.03	0.88	1.21	1.07	0.78	1.47	
WHS	15	0.212|0.221	417|219|32|403|247|26	668|676	0.35	0.555449	1	1.06	0.88	1.27	1.12	0.77	1.62	
PBCS 1+2	12	0.208|0.218	1421|735|103|1298|706|106	2259|2110	0.98	0.3212604	1	1.05	0.95	1.17	1.11	0.90	1.36	

Locus	Alleles	Chr	Location	Neighborhood										
rs3134615	G|T	1p34.2		40134653 TRIT1,MYCL1										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	hom OR 95% CI_u
STAGE1-3	6	0.228|0.246	6153|3643|540|5335|3514|552	10336|9401	15.87	6.78E-05	1	1.10	1.05	1.15	1.21	1.10	1.33	
NHS	1	0.220|0.263	690|402|50|617|454|74	1142|1145	13.22	2.77E-04	1	1.29	1.13	1.49	1.67	1.27	2.21	
STAGE1-2	9	0.228|0.250	3134|1895|256|3048|2068|324	5285|5440	14.78	1.21E-04	1	1.13	1.06	1.21	1.28	1.13	1.46	
STAGE2	20	0.230|0.246	2444|1493|206|2431|1614|250	4143|4295	5.93	0.014906	1	1.09	1.02	1.17	1.20	1.04	1.38	
CPSII	11	0.215|0.236	326|200|17|313|192|30	543|535	1.34	0.2471949	1	1.13	0.92	1.39	1.28	0.84	1.94	
PBCS1	17	0.226|0.238	299|185|22|387|245|37	506|669	0.22	0.636199	1	1.05	0.86	1.28	1.10	0.74	1.64	
PLCO	9	0.236|0.258	578|334|63|516|375|57	975|948	2.13	0.1446897	1	1.12	0.96	1.29	1.25	0.93	1.67	
WHI	13	0.229|0.248	1421|875|113|1349|904|141	2409|2394	5.08	0.0241355	1	1.12	1.01	1.23	1.24	1.03	1.51	
STAGE3	7	0.229|0.240	3019|1748|284|2287|1449|229	5051|3965	2.48	0.1154563	1	1.06	0.99	1.13	1.12	0.97	1.29	
NHS2	17	0.228|0.233	687|372|72|328|198|31	1131|557	0.12	0.7307379	1	1.03	0.87	1.22	1.06	0.76	1.48	
NOR	10	0.232|0.253	292|179|26|284|200|30	497|514	1.23	0.2665757	1	1.12	0.91	1.38	1.26	0.84	1.91	
PBCS2	19	0.226|0.231	1063|591|102|854|504|81	1756|1439	0.14	0.707232	1	1.02	0.91	1.15	1.05	0.83	1.32	
USRT	15	0.240|0.246	567|373|51|445|276|52	991|773	0.24	0.6237828	1	1.04	0.89	1.22	1.08	0.79	1.48	
WHS	2	0.221|0.250	410|233|33|376|271|35	676|682	3.21	0.0730353	1	1.18	0.98	1.41	1.39	0.97	2.00	
PBCS 1+2	16	0.226|0.233	1362|776|124|1241|746|117	2262|2104	0.44	0.5072521	1	1.03	0.94	1.14	1.07	0.88	1.31	

Locus	Alleles	Chr	Location	Neighborhood										
rs10850145	C|T	12q24.13		112428512										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	hom OR 95% CI_u
STAGE1-3	7	0.095|0.106	8474|1786|86|7536|1776|110	10346|9422	14.37	1.50E-04	1	1.14	1.06	1.22	1.29	1.13	1.48	

NHS	6	0.086|0.110	951|186|5|912|215|18	1142|1145	7.67	0.005608	1	1.32	1.08	1.61	1.75	1.18	2.60
STAGE1-2	7	0.089|0.107	4388|850|47|4340|1031|67	5285|5438	16.61	4.58E-05	1	1.21	1.10	1.32	1.46	1.22	1.75
STAGE2	9	0.090|0.106	3437|664|42|3428|816|49	4143|4293	9.91	0.0016445	1	1.18	1.06	1.31	1.39	1.13	1.70
CPSII	15	0.099|0.107	444|90|9|426|103|6	543|535	0.40	0.5261969	1	1.09	0.83	1.44	1.20	0.69	2.08
PBCS1	10	0.094|0.113	417|83|6|523|141|5	506|669	1.78	0.182647	1	1.21	0.91	1.60	1.46	0.84	2.54
PLCO	8	0.077|0.094	832|135|8|775|167|6	975|948	2.58	0.1085054	1	1.21	0.96	1.52	1.46	0.92	2.30
WHI	6	0.094|0.111	1982|403|24|1898|459|35	2409|2392	7.04	0.0079531	1	1.20	1.05	1.37	1.43	1.10	1.87
STAGE3	9	0.100|0.104	4086|937|39|3198|745|43	5062|3986	1.29	0.2560992	1	1.06	0.96	1.17	1.12	0.92	1.36
NHS2	20	0.103|0.105	905|207|12|456|92|13	1124|561	0.05	0.8275237	1	1.03	0.82	1.29	1.05	0.67	1.67
NOR	14	0.081|0.090	414|80|0|426|82|5	494|513	0.45	0.5013195	1	1.12	0.81	1.54	1.25	0.66	2.36
PBCS2	15	0.104|0.108	1412|338|15|1152|282|16	1765|1450	0.40	0.5292011	1	1.05	0.90	1.24	1.11	0.80	1.53
USRT	23	0.105|0.106	799|184|12|622|146|9	995|777	0.00	0.9715141	1	1.00	0.81	1.25	1.01	0.65	1.56
WHS	9	0.094|0.104	556|128|0|542|143|0	684|685	1.00	0.3178945	1	1.15	0.88	1.50	1.31	0.77	2.24
PBCS 1+2	9	0.102|0.110	1829|420|21|1673|423|21	2270|2117	1.73	0.1883632	1	1.10	0.96	1.26	1.20	0.91	1.59

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.035|0.028	9603|693|10|8879|500|14	10306|9393	12.73	0.00036	1	0.81	0.72	0.91	0.66	0.52	0.83
NHS	13	0.034|0.024	1064|78|0|1089|56|0	1142|1145	3.94	0.0470387	1	0.70	0.49	1.00	0.49	0.24	0.99
STAGE1-2	10	0.034|0.025	4927|356|2|5166|271|3	5285|5440	14.42	1.46E-04	1	0.73	0.62	0.86	0.54	0.39	0.74
STAGE2	7	0.034|0.026	3863|278|2|4077|215|3	4143|4295	10.50	0.0011939	1	0.74	0.62	0.89	0.55	0.38	0.79
CPSII	2	0.030|0.017	510|33|0|518|16|1	543|535	4.52	0.0335397	1	0.53	0.30	0.96	0.29	0.09	0.92
PBCS1	5	0.033|0.022	473|33|0|640|29|0	506|669	3.23	0.0723462	1	0.62	0.37	1.05	0.39	0.14	1.10
PLCO	10	0.036|0.028	906|68|1|895|52|1	975|948	2.09	0.1478121	1	0.76	0.53	1.10	0.58	0.28	1.21
WHI	11	0.034|0.026	2245|163|1|2269|124|1	2409|2394	5.62	0.0177855	1	0.75	0.59	0.95	0.56	0.35	0.91
STAGE3	8	0.035|0.032	4676|337|8|3714|229|11	5021|3954	1.40	0.2362169	1	0.91	0.77	1.07	0.82	0.59	1.14
NHS2	3	0.039|0.025	1029|77|5|534|20|4	1111|558	3.91	0.0479425	1	0.66	0.44	1.00	0.44	0.19	1.00
NOR	12	0.036|0.043	460|36|0|472|44|0	496|516	0.66	0.4174926	1	1.21	0.76	1.92	1.46	0.58	3.68
PBCS2	17	0.032|0.030	1648|112|1|1358|83|2	1761|1443	0.18	0.6735738	1	0.94	0.71	1.25	0.88	0.50	1.56
USRT	19	0.037|0.035	920|74|0|723|54|0	994|777	0.12	0.7345186	1	0.94	0.65	1.35	0.88	0.42	1.83
WHS	17	0.032|0.029	619|38|2|627|28|5	659|660	0.19	0.6663294	1	0.91	0.60	1.38	0.83	0.36	1.91
PBCS 1+2	11	0.032|0.027	2121|145|1|1997|112|2	2267|2111	1.53	0.2154451	1	0.85	0.67	1.10	0.73	0.44	1.20

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.159|0.173	7305|2730|274|6459|2624|308	10309|9391	12.55	0.0003956	1	1.10	1.04	1.16	1.21	1.09	1.35
NHS	8	0.151|0.178	814|311|17|769|342|33	1142|1144	6.87	0.0087432	1	1.24	1.06	1.46	1.54	1.11	2.12
STAGE1-2	6	0.150|0.173	3805|1375|105|3737|1522|180	5285|5439	18.00	2.21E-05	1	1.17	1.09	1.26	1.37	1.19	1.59
STAGE2	6	0.150|0.172	2991|1064|88|2968|1180|147	4143|4295	11.68	0.0006311	1	1.15	1.06	1.25	1.33	1.13	1.57
CPSII	20	0.159|0.164	383|147|13|377|140|18	543|535	0.03	0.8591097	1	1.02	0.81	1.28	1.04	0.66	1.65
PBCS1	4	0.191|0.227	335|149|22|400|234|35	506|669	4.09	0.0431819	1	1.23	1.01	1.51	1.52	1.01	2.29
PLCO	6	0.144|0.166	714|241|20|658|265|25	975|948	2.82	0.0928822	1	1.16	0.97	1.39	1.36	0.95	1.94
WHI	9	0.143|0.161	1761|606|42|1700|616|78	2409|2394	5.86	0.0155274	1	1.15	1.03	1.28	1.32	1.05	1.64
STAGE3	13	0.169|0.172	3500|1356|169|2722|1105|128	5025|3955	0.57	0.4497368	1	1.03	0.95	1.11	1.06	0.91	1.24
NHS2	9	0.169|0.156	777|292|42|394|140|16	1111|550	0.83	0.3615564	1	0.91	0.76	1.11	0.84	0.57	1.23
NOR	16	0.142|0.135	364|125|8|382|127|6	497|515	0.36	0.5511798	1	0.92	0.71	1.20	0.85	0.51	1.44
PBCS2	22	0.190|0.192	1158|519|73|941|441|55	1750|1437	0.06	0.808242	1	1.02	0.90	1.15	1.03	0.80	1.32
USRT	4	0.155|0.177	713|256|26|530|216|29	995|775	3.17	0.0752123	1	1.17	0.98	1.40	1.38	0.97	1.97
WHS	10	0.152|0.166	488|164|20|475|181|22	672|678	0.97	0.3236031	1	1.11	0.90	1.36	1.23	0.82	1.84
PBCS 1+2	10	0.190|0.203	1493|667|95|1341|672|90	2255|2103	1.66	0.1976639	1	1.07	0.96	1.19	1.15	0.93	1.42

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	10	0.259|0.280	3015|2105|370|2365|1859|351	5490|4575	10.10	0.0014842	1	1.11	1.04	1.18	1.23	1.08	1.39
STAGE3	3	0.259|0.278	2759|1911|343|2048|1601|295	5013|3944	7.80	0.0052166	1	1.10	1.03	1.18	1.21	1.06	1.39
NHS2	7	0.256|0.280	607|415|73|286|220|44	1095|550	2.12	0.1453449	1	1.13	0.96	1.33	1.27	0.92	1.76
NOR	9	0.303|0.282	239|213|44|265|210|40	496|515	1.27	0.2601558	1	0.89	0.74	1.09	0.80	0.54	1.18
PBCS2	3	0.259|0.276	969|667|121|737|605|94	1757|1436	2.90	0.0887689	1	1.10	0.99	1.24	1.22	0.97	1.53
USRT	1	0.236|0.290	575|373|49|395|307|71	997|773	13.54	2.34E-04	1	1.33	1.14	1.55	1.77	1.30	2.40
WHS	20	0.266|0.262	369|243|56|365|259|46	668|670	0.05	0.8274126	1	0.98	0.83	1.16	0.96	0.69	1.35
PBCS 1+2	2	0.259|0.281	1225|861|148|1054|863|150	2234|2067	5.35	0.0207502	1	1.12	1.02	1.24	1.26	1.04	1.53

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	11	0.448|0.433	3162|5069|2091|3036|4591|1771	10322|9398	9.26	0.0023405	1	0.94	0.90	0.98	0.88	0.82	0.96
NHS	12	0.470|0.439	312|586|244|357|569|218	1142|1144	4.22	0.0400373	1	0.88	0.79	0.99	0.78	0.62	0.99
STAGE1-2	13	0.454|0.430	1574|2619|1092|1768|2664|1006	5285|5438	13.21	2.79E-04	1	0.90	0.86	0.95	0.82	0.73	0.91
STAGE2	11	0.450|0.427	1262|2033|848|1411|2095|788	4143|4294	9.19	0.002437	1	0.91	0.86	0.97	0.83	0.73	0.94
CPSII	6	0.471|0.436	152|271|120|172|259|104	543|535	2.63	0.1051026	1	0.87	0.73	1.03	0.75	0.54	1.06
PBCS1	8	0.483|0.446	138|247|121|200|340|128	506|668	2.28	0.1306366	1	0.88	0.74	1.04	0.77	0.55	1.08
PLCO	4	0.449|0.419	298|478|199|319|464|165	975|948	4.05	0.0440809	1	0.88	0.77	1.00	0.77	0.59	1.00
WHI	18	0.443|0.424	755|1175|479|803|1153|438	2409|2394	3.46	0.0626881	1	0.93	0.86	1.00	0.86	0.73	1.01
STAGE3	16	0.442|0.437	1588|2454|1000|1269|1929|767	5042|3965	0.30	0.5847041	1	0.98	0.93	1.04	0.97	0.86	1.09
NHS2	21	0.440|0.436	363|535|227|175|278|104	1125|557	0.03	0.8599302	1	0.99	0.86	1.14	0.97	0.73	1.30
NOR	18	0.391|0.401	184|235|76|188|240|86	495|514	0.22	0.6390995	1	1.04	0.87	1.25	1.09	0.76	1.55
PBCS2	4	0.457|0.441	518|863|368|456|695|287	1749|1438	1.78	0.1826356	1	0.93	0.85	1.03	0.87	0.72	1.07
USRT	11	0.454|0.444	295|489|205|243|378|156	989|777	0.63	0.426563	1	0.95	0.83	1.08	0.90	0.69	1.17
WHS	4	0.424|0.446	228|332|124|207|338|134	684|679	1.37	0.2422335	1	1.09	0.94	1.27	1.20	0.88	1.62
PBCS 1+2	4	0.463|0.442	656|1106|488|655|1033|413	2250|2101	4.28	0.0386343	1	0.91	0.84	1.00	0.84	0.71	0.99

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 G6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	12	0.355|0.370	4295|4686|1313|3761|4282|1328	10294|9371	9.18	0.0024515	1	1.07	1.02	1.11	1.14	1.05	1.23
NHS	14	0.356|0.381	459|552|130|447|523|175	1141|1145	2.91	0.0878516	1	1.11	0.98	1.26	1.24	0.97	1.58
STAGE1-2	8	0.349|0.375	2226|2433|625|2178|2443|817	5284|5438	15.66	7.59E-05	1	1.12	1.06	1.18	1.25	1.12	1.40
STAGE2	5	0.346|0.373	1767|1881|495|1731|1920|642	4143|4293	12.84	0.0003385	1	1.12	1.05	1.19	1.26	1.11	1.43
CPSII	17	0.350|0.339	220|266|57|238|231|66	543|535	0.32	0.5728865	1	0.95	0.79	1.14	0.90	0.63	1.29
PBCS1	22	0.345|0.356	216|231|59|287|287|94	506|668	0.08	0.7782246	1	1.03	0.86	1.22	1.05	0.75	1.48
PLCO	2	0.333|0.374	437|427|111|378|430|140	975|948	6.54	0.0105207	1	1.19	1.04	1.36	1.41	1.08	1.84
WHI	3	0.351|0.383	1018|1093|298|933|1089|371	2409|2393	10.10	0.0014858	1	1.14	1.05	1.24	1.31	1.11	1.54
STAGE3	22	0.362|0.364	2070|2257|688|1584|1840|511	5015|3935	0.02	0.8889519	1	1.00	0.94	1.07	1.01	0.89	1.14
NHS2	24	0.368|0.367	459|501|163|226|249|79	1123|554	0.00	0.9821966	1	1.00	0.86	1.16	1.00	0.74	1.34
NOR	24	0.372|0.371	200|212|75|200|232|70	487|502	0.00	0.9692459	1	1.00	0.83	1.19	0.99	0.69	1.42
PBCS2	24	0.349|0.349	744|779|218|599|660|169	1741|1428	0.01	0.9371275	1	1.00	0.90	1.11	0.99	0.81	1.22
USRT	12	0.374|0.366	391|459|141|311|366|102	991|779	0.44	0.5061617	1	0.95	0.83	1.10	0.91	0.69	1.20
WHS	5	0.363|0.383	276|306|91|248|333|91	673|672	1.27	0.2606075	1	1.09	0.93	1.28	1.20	0.87	1.64
PBCS 1+2	21	0.348|0.351	959|1006|277|885|946|263	2242|2094	0.09	0.7588788	1	1.01	0.93	1.11	1.03	0.86	1.23

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	13	0.261|0.275	5011|3522|635|4351|3283|626	9168|8260	8.55	0.0034643	1	1.07	1.02	1.13	1.15	1.05	1.27
STAGE1-2	5	0.252|0.281	2304|1588|250|2220|1730|341	4142|4291	19.41	1.06E-05	1	1.17	1.09	1.25	1.36	1.19	1.57

STAGE2	1	0.252|0.281	2304|1588|250|2220|1730|341	4142|4291	19.25	1.15E-05	1	1.17	1.09	1.25	1.36	1.19	1.57
CPSII	7	0.247|0.273	309|198|35|287|202|45	542|534	1.86	0.1728142	1	1.14	0.94	1.38	1.30	0.89	1.91
PBCS1	12	0.246|0.265	293|177|36|368|245|54	506|667	1.17	0.2804155	1	1.11	0.92	1.33	1.23	0.85	1.78
PLCO	1	0.230|0.291	569|364|42|481|381|85	975|947	18.94	1.35E-05	1	1.39	1.20	1.61	1.93	1.43	2.60
WHI	12	0.263|0.283	1302|949|158|1217|998|179	2409|2394	5.13	0.0234819	1	1.11	1.01	1.22	1.23	1.03	1.48
STAGE3	21	0.269|0.267	2707|1938|385|2132|1554|285	5030|3971	0.03	0.8693836	1	0.99	0.93	1.06	0.99	0.87	1.13
NHS2	10	0.269|0.281	611|397|100|293|218|48	1108|559	0.45	0.5039181	1	1.05	0.90	1.23	1.11	0.81	1.52
NOR	13	0.248|0.264	276|192|27|278|204|34	495|516	0.59	0.4405073	1	1.08	0.88	1.33	1.17	0.78	1.76
PBCS2	6	0.273|0.261	926|696|131|778|567|92	1753|1437	1.14	0.2857261	1	0.94	0.84	1.05	0.88	0.71	1.11
USRT	17	0.273|0.267	524|397|73|418|302|56	994|776	0.15	0.6967169	1	0.97	0.83	1.13	0.94	0.70	1.27
WHS	19	0.268|0.273	370|256|54|365|263|55	680|683	0.09	0.7645311	1	1.03	0.87	1.21	1.05	0.75	1.47
PBCS 1+2	19	0.267|0.262	1219|869|167|1145|811|146	2255|2102	0.12	0.7275676	1	0.98	0.89	1.08	0.97	0.80	1.17

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.223|0.212	6195|3596|493|5841|3084|449	10284|9374	7.45	0.0063435	1	0.93	0.89	0.98	0.87	0.79	0.96
NHS	9	0.220|0.189	695|392|55|754|349|42	1142|1145	6.33	0.0118981	1	0.83	0.72	0.96	0.69	0.52	0.92
STAGE1-2	14	0.220|0.201	3183|1875|227|3482|1721|235	5285|5438	12.71	0.0003635	1	0.89	0.83	0.95	0.79	0.69	0.90
STAGE2	14	0.220|0.205	2488|1483|172|2728|1372|193	4143|4293	7.53	0.0060846	1	0.90	0.84	0.97	0.81	0.70	0.94
CPSII	13	0.217|0.205	323|203|16|341|165|27	542|533	0.67	0.4117414	1	0.91	0.74	1.13	0.84	0.55	1.28
PBCS1	20	0.244|0.239	284|197|25|391|235|42	506|668	0.18	0.6738738	1	0.96	0.79	1.17	0.92	0.62	1.36
PLCO	3	0.229|0.199	577|350|48|606|307|35	975|948	4.98	0.0256001	1	0.84	0.71	0.98	0.70	0.51	0.96
WHI	14	0.213|0.196	1476|838|95|1557|734|102	2409|2393	4.67	0.0306956	1	0.90	0.81	0.99	0.80	0.66	0.98
STAGE3	23	0.225|0.227	3013|1723|266|2360|1365|213	5002|3938	0.01	0.928739	1	1.00	0.93	1.07	0.99	0.86	1.14
NHS2	18	0.200|0.204	712|332|53|344|181|21	1097|546	0.11	0.7426708	1	1.03	0.86	1.23	1.06	0.74	1.52
NOR	23	0.221|0.219	297|179|20|314|175|25	496|514	0.02	0.8844886	1	0.98	0.79	1.22	0.97	0.63	1.49
PBCS2	20	0.252|0.258	980|644|117|793|540|99	1741|1432	0.14	0.7095465	1	1.02	0.91	1.14	1.04	0.83	1.31
USRT	24	0.206|0.205	626|327|41|495|242|38	994|775	0.00	0.9880694	1	1.00	0.85	1.18	1.00	0.72	1.39
WHS	6	0.231|0.214	398|241|35|414|227|30	674|671	1.12	0.2890838	1	0.91	0.75	1.09	0.82	0.57	1.18
PBCS 1+2	22	0.250|0.252	1263|839|142|1183|773|142	2244|2098	0.07	0.7902235	1	1.01	0.92	1.12	1.03	0.85	1.25

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.384|0.371	3916|4697|1559|3704|4197|1330	10172|9231	6.94	0.0084133	1	0.95	0.91	0.99	0.90	0.83	0.97
NHS	10	0.400|0.365	403|541|178|474|476|171	1122|1121	6.29	0.012149	1	0.86	0.76	0.97	0.74	0.58	0.94
STAGE1-2	3	0.400|0.368	1731|2149|797|1897|2074|674	4677|4645	20.53	5.86E-06	1	0.87	0.82	0.93	0.76	0.68	0.86
STAGE2	3	0.400|0.369	1328|1608|619|1423|1598|503	3555|3524	14.31	1.55E-04	1	0.88	0.82	0.94	0.77	0.68	0.88
CPSII	19	0.387|0.373	199|251|79|202|249|70	529|521	0.28	0.593905	1	0.95	0.80	1.14	0.91	0.63	1.30
PLCO	22	0.378|0.376	379|431|146|373|394|147	956|914	0.06	0.8121731	1	0.98	0.86	1.12	0.97	0.75	1.26
WHI	1	0.409|0.368	857|1064|430|933|1084|316	2351|2333	16.74	4.28E-05	1	0.84	0.78	0.91	0.71	0.60	0.84
STAGE3	11	0.371|0.377	1992|2333|700|1552|1840|573	5025|3965	0.58	0.4463214	1	1.02	0.96	1.09	1.05	0.93	1.19
NHS2	6	0.366|0.398	457|508|157|212|261|96	1122|569	3.14	0.0762009	1	1.14	0.99	1.32	1.30	0.97	1.73
NOR	11	0.364|0.345	202|227|67|221|233|61	496|515	0.90	0.3437393	1	0.92	0.76	1.10	0.84	0.58	1.21
PBCS2	18	0.368|0.364	706|782|248|568|669|183	1736|1420	0.16	0.6892231	1	0.98	0.88	1.09	0.96	0.78	1.18
USRT	13	0.393|0.403	356|496|143|283|364|132	995|779	0.44	0.5082467	1	1.05	0.91	1.20	1.10	0.83	1.44
WHS	12	0.362|0.378	271|320|85|268|313|101	676|682	0.64	0.422408	1	1.07	0.91	1.25	1.14	0.83	1.55
PBCS 1+2	20	0.367|0.364	899|997|310|823|952|266	2206|2041	0.10	0.7515016	1	0.99	0.90	1.08	0.97	0.81	1.16

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.136|0.128	7735|2378|217|7155|2085|163	10330|9403	6.36	0.0116827	1	0.93	0.88	0.98	0.86	0.77	0.97

NHS	4	0.153|0.123	819|296|27|877|252|15	1142|1144	9.46	0.0020945	1	0.77	0.65	0.91	0.59	0.42	0.82
STAGE1-2	12	0.143|0.126	3888|1281|116|4158|1190|91	5285|5439	13.25	2.72E-04	1	0.86	0.80	0.94	0.75	0.64	0.87
STAGE2	16	0.140|0.127	3069|985|89|3281|938|76	4143|4295	6.27	0.0123068	1	0.89	0.82	0.98	0.80	0.67	0.95
CPSII	10	0.140|0.120	398|138|7|417|108|10	543|535	1.37	0.2416355	1	0.86	0.66	1.11	0.74	0.44	1.23
PBCS1	7	0.153|0.129	364|129|13|510|146|13	506|669	2.40	0.1214822	1	0.83	0.66	1.05	0.69	0.43	1.10
PLCO	18	0.132|0.124	738|216|21|732|196|20	975|948	0.51	0.4739094	1	0.93	0.77	1.13	0.87	0.60	1.27
WHI	17	0.141|0.128	1783|572|54|1818|540|36	2409|2394	3.62	0.057015	1	0.89	0.79	1.00	0.80	0.63	1.01
STAGE3	20	0.129|0.132	3849|1100|101|2997|901|72	5050|3970	0.11	0.7399786	1	1.01	0.93	1.11	1.03	0.87	1.23
NHS2	19	0.126|0.123	869|243|21|433|113|12	1133|558	0.07	0.7978548	1	0.97	0.79	1.20	0.95	0.62	1.45
NOR	2	0.128|0.167	380|103|12|356|148|12	495|516	6.17	0.0130207	1	1.37	1.07	1.75	1.87	1.14	3.07
PBCS2	13	0.124|0.118	1344|368|32|1120|300|20	1744|1440	0.51	0.4754138	1	0.95	0.81	1.10	0.90	0.66	1.21
USRT	22	0.138|0.142	736|239|17|573|191|15	992|779	0.02	0.8963976	1	1.01	0.83	1.23	1.03	0.70	1.51
WHS	18	0.135|0.129	520|147|19|515|149|13	686|677	0.17	0.6796931	1	0.96	0.77	1.19	0.91	0.59	1.41
PBCS 1+2	7	0.130|0.120	1706|494|45|1630|440|33	2245|2103	2.50	0.1136209	1	0.90	0.80	1.02	0.81	0.63	1.05

Locus	Alleles	Chr	Location	Neighborhood										
rs998592	G|A	16p13.13		11107179	CLEC16A									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	17	0.424|0.413	3455|4960|1895|3179|4677|1549	10310|9405	4.99	0.0255178	1	0.95	0.92	0.99	0.91	0.84	0.99	
NHS	21	0.425|0.431	405|502|233|349|605|191	1140|1145	0.17	0.6838614	1	1.02	0.91	1.15	1.05	0.83	1.33	
STAGE1-2	20	0.436|0.419	1716|2524|1043|1778|2767|895	5283|5440	6.10	0.0135267	1	0.93	0.88	0.99	0.87	0.78	0.97	
STAGE2	12	0.440|0.416	1311|2022|810|1429|2162|704	4143|4295	9.07	0.0026052	1	0.91	0.85	0.97	0.83	0.73	0.94	
CPSII	1	0.475|0.415	158|254|131|184|258|93	543|535	7.17	0.0074005	1	0.79	0.67	0.94	0.63	0.45	0.88	
PBCS1	3	0.415|0.369	186|220|100|264|316|89	506|669	4.17	0.0410616	1	0.84	0.71	0.99	0.71	0.50	0.99	
PLCO	20	0.419|0.411	324|485|166|320|476|152	975|948	0.26	0.6131115	1	0.97	0.85	1.10	0.93	0.72	1.22	
WHI	19	0.450|0.433	729|1192|488|743|1229|422	2409|2394	2.98	0.0842612	1	0.93	0.86	1.01	0.87	0.74	1.02	
STAGE3	14	0.412|0.406	1739|2436|853|1402|1912|654	5028|3968	0.41	0.523455	1	0.98	0.92	1.04	0.96	0.85	1.09	
NHS2	13	0.417|0.427	378|542|193|187|267|105	1113|559	0.29	0.5918245	1	1.04	0.90	1.20	1.08	0.81	1.45	
NOR	19	0.390|0.400	186|231|77|187|245|84	494|516	0.19	0.6651726	1	1.04	0.87	1.24	1.08	0.76	1.54	
PBCS2	16	0.400|0.394	625|849|274|528|682|223	1748|1433	0.34	0.5610134	1	0.97	0.88	1.07	0.94	0.77	1.15	
USRT	6	0.439|0.415	313|490|192|268|373|136	995|777	2.16	0.1418561	1	0.90	0.79	1.03	0.82	0.62	1.07	
WHS	22	0.412|0.408	237|324|117|232|345|106	678|683	0.04	0.8459726	1	0.98	0.84	1.15	0.97	0.71	1.32	
PBCS 1+2	8	0.403|0.386	811|1069|373|791|996|312	2253|2099	2.33	0.1272096	1	0.93	0.86	1.02	0.87	0.74	1.04	

Locus	Alleles	Chr	Location	Neighborhood										
rs3817198	T|C	11p15.5		1865582	LSP1									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	18	0.322|0.332	4732|4516|1068|4222|4118|1068	10316|9408	4.28	0.0386333	1	1.05	1.00	1.09	1.09	1.00	1.19	
NHS	18	0.318|0.330	524|510|108|514|505|125	1142|1144	0.77	0.3804685	1	1.06	0.93	1.20	1.12	0.87	1.44	
STAGE1-2	21	0.325|0.341	2407|2312|562|2371|2415|643	5281|5429	5.06	0.0244592	1	1.07	1.01	1.13	1.14	1.02	1.28	
STAGE2	21	0.327|0.344	1883|1802|454|1857|1910|518	4139|4285	4.31	0.0377779	1	1.07	1.00	1.14	1.15	1.01	1.30	
CPSII	16	0.334|0.345	243|231|64|235|227|70	538|532	0.35	0.5521196	1	1.06	0.88	1.26	1.11	0.78	1.59	
PBCS1	16	0.319|0.333	229|228|47|292|299|71	504|662	0.25	0.6159112	1	1.05	0.87	1.25	1.10	0.76	1.57	
PLCO	21	0.335|0.344	440|417|118|397|449|101	975|947	0.06	0.8039682	1	1.02	0.89	1.16	1.03	0.79	1.36	
WHI	15	0.326|0.346	1097|1051|260|1047|1038|309	2408|2394	4.28	0.0386638	1	1.09	1.00	1.19	1.19	1.01	1.41	
STAGE3	17	0.319|0.322	2324|2205|506|1845|1706|426	5035|3977	0.18	0.6753061	1	1.01	0.95	1.08	1.03	0.91	1.17	
NHS2	16	0.317|0.311	518|491|109|277|232|61	1118|570	0.15	0.6959429	1	0.97	0.83	1.13	0.94	0.69	1.28	
NOR	5	0.262|0.290	269|194|33|258|215|42	496|515	2.10	0.1473198	1	1.16	0.95	1.41	1.34	0.90	1.99	
PBCS2	11	0.330|0.339	789|789|189|634|637|171	1767|1442	0.58	0.4479135	1	1.04	0.94	1.16	1.08	0.88	1.34	
USRT	7	0.338|0.317	442|434|119|366|331|81	995|778	2.12	0.1452375	1	0.90	0.78	1.04	0.81	0.61	1.08	
WHS	14	0.310|0.322	306|297|56|310|291|71	659|672	0.44	0.5058292	1	1.06	0.90	1.25	1.12	0.80	1.56	
PBCS 1+2	14	0.328|0.336	1019|1016|236|932|933|241	2271|2106	0.84	0.3588361	1	1.04	0.95	1.14	1.09	0.91	1.30	

Locus	Alleles	Chr	Location	Neighborhood
rs4666451	G|A	2p24.1		19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	19	0.391|0.382	3412|4325|1424/3148|3915|1197	9161|8260	3.62	0.0571613	1	0.96	0.92	1.00	0.92	0.84	1.00
STAGE1-2	17	0.398|0.376	1509|1968|666/1657|2045|593	4143|4295	9.29	0.0023019	1	0.91	0.85	0.97	0.82	0.73	0.93
STAGE2	10	0.398|0.376	1509|1968|666/1657|2045|593	4143|4295	9.37	0.0022044	1	0.91	0.85	0.97	0.82	0.73	0.93
CPSII	21	0.394|0.400	201|256|86/177|288|70	543|535	0.02	0.8995977	1	1.01	0.85	1.21	1.02	1.02	1.46
PBCS1	9	0.409|0.380	176|246|84/257|316|96	506|669	2.19	0.1385464	1	0.88	0.74	1.04	0.77	0.55	1.09
PLCO	11	0.393|0.373	355|474|146/363|462|123	975|948	1.83	0.1761889	1	0.91	0.80	1.04	0.83	0.64	1.09
WHI	10	0.397|0.372	890|1125|394/950|1105|339	2409|2394	5.85	0.0155669	1	0.90	0.83	0.98	0.82	0.69	0.96
STAGE3	19	0.386|0.388	1905|2358|758/1491|1874|604	5021|3969	0.11	0.7377645	1	1.01	0.95	1.07	1.02	0.90	1.15
NHS2	22	0.382|0.384	428|504|169/211|263|82	1101|556	0.01	0.9249408	1	1.01	0.87	1.17	1.01	0.76	1.36
NOR	17	0.363|0.355	201|230|65/214|238|64	496|516	0.25	0.6155384	1	0.95	0.79	1.15	0.91	0.63	1.32
PBCS2	9	0.399|0.411	621|858|268/504|692|247	1747|1443	0.92	0.3369832	1	1.05	0.95	1.16	1.10	0.90	1.35
USRT	10	0.382|0.370	389|452|154/309|358|108	995|775	0.69	0.4046393	1	0.94	0.82	1.08	0.89	0.68	1.17
WHS	16	0.380|0.390	266|314|102/253|323|103	682|679	0.27	0.6029523	1	1.04	0.89	1.21	1.09	0.80	1.48
PBCS 1+2	24	0.402|0.401	795|1103|352/761|1004|343	2250|2108	0.00	0.9735245	1	1.00	0.92	1.09	1.00	0.84	1.19

Locus rs7936636 Alleles C|T Chr 11p11.2 Location Neighborhood 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	20	0.254|0.246	5706|3954|643/5366|3460|582	10303|9408	3.48	0.0619335	1	0.96	0.91	1.00	0.92	0.84	1.00
NHS	15	0.256|0.240	635|430|77/673|395|77	1142|1145	1.54	0.2139138	1	0.92	0.81	1.05	0.85	0.65	1.10
STAGE1-2	16	0.263|0.244	2852|2086|344/3144|1940|355	5282|5439	9.79	0.0017566	1	0.91	0.85	0.96	0.82	0.73	0.93
STAGE2	13	0.264|0.245	2217|1656|267/2471|1545|278	4140|4294	8.32	0.003913	1	0.90	0.84	0.97	0.81	0.71	0.94
CPSII	4	0.266|0.233	286|224|32/323|175|37	542|535	3.24	0.0717239	1	0.84	0.69	1.02	0.70	0.47	1.03
PBCS1	11	0.247|0.226	284|193|28/406|222|40	505|668	1.19	0.2753319	1	0.90	0.74	1.09	0.81	0.55	1.19
PLCO	13	0.263|0.249	526|385|64/546|332|70	975|948	1.34	0.2474853	1	0.92	0.79	1.06	0.84	0.63	1.13
WHI	7	0.270|0.247	1272|973|163/1358|890|146	2408|2394	6.52	0.0106444	1	0.89	0.81	0.97	0.79	0.65	0.95
STAGE3	12	0.246|0.249	2854|1868|299/2222|1521|226	5021|3969	0.57	0.4492485	1	1.03	0.96	1.10	1.06	0.92	1.21
NHS2	4	0.266|0.235	598|438|77/330|197|33	1113|560	3.78	0.0517916	1	0.85	0.72	1.00	0.72	0.51	1.00
NOR	1	0.192|0.237	326|153|19/301|185|30	498|516	6.54	0.0105328	1	1.32	1.07	1.64	1.74	1.14	2.68
PBCS2	2	0.245|0.264	993|643|105/769|569|94	1741|1432	3.07	0.0797158	1	1.11	0.99	1.24	1.23	0.98	1.54
USRT	9	0.254|0.240	553|376|64/442|301|37	993|780	0.83	0.3617171	1	0.93	0.79	1.09	0.86	0.63	1.18
WHS	21	0.241|0.244	384|258|34/380|269|32	676|681	0.04	0.8338754	1	1.02	0.85	1.22	1.04	0.72	1.49
PBCS 1+2	15	0.245|0.252	1277|836|133/1175|790|135	2246|2100	0.80	0.3714725	1	1.05	0.95	1.15	1.09	0.90	1.33

Locus rs2391406 Alleles T|G Chr 13q33.3 Location Neighborhood 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	21	0.371|0.364	4130|4683|1470/3746|4431|1190	10283|9367	2.52	0.1120642	1	0.97	0.93	1.01	0.94	0.86	1.02
NHS	19	0.372|0.363	452|529|160/460|538|146	1141|1144	0.30	0.5861755	1	0.97	0.86	1.09	0.94	0.73	1.19
STAGE1-2	19	0.375|0.359	2110|2378|789/2188|2594|652	5277|5434	6.27	0.0122848	1	0.93	0.88	0.98	0.87	0.78	0.97
STAGE2	15	0.376|0.358	1658|1849|629/1728|2056|506	4136|4290	6.45	0.0111114	1	0.92	0.87	0.98	0.85	0.75	0.96
CPSII	3	0.371|0.333	217|240|79/228|251|51	536|530	3.77	0.0520469	1	0.84	0.70	1.00	0.70	0.49	1.00
PBCS1	15	0.387|0.374	195|230|81/242|351|74	506|667	0.44	0.5062495	1	0.94	0.79	1.12	0.89	0.62	1.26
PLCO	7	0.376|0.350	398|416|157/393|445|109	971|947	2.79	0.0948389	1	0.89	0.78	1.02	0.80	0.61	1.04
WHI	21	0.372|0.360	971|1084|353/966|1133|295	2408|2394	1.51	0.2187011	1	0.95	0.87	1.03	0.90	0.76	1.06
STAGE3	18	0.366|0.370	2020|2309|681/1558|1839|538	5010|3935	0.13	0.7142303	1	1.01	0.95	1.08	1.02	0.90	1.16
NHS2	2	0.341|0.379	493|477|140/216|265|80	1110|561	4.55	0.0330055	1	1.17	1.01	1.36	1.38	1.03	1.85
NOR	21	0.366|0.372	207|214|74/201|245|69	495|515	0.07	0.7885146	1	1.02	0.86	1.23	1.05	0.73	1.50
PBCS2	23	0.380|0.382	656|853|236/542|686|203	1745|1431	0.04	0.836907	1	1.01	0.91	1.12	1.02	0.83	1.26
USRT	21	0.359|0.365	410|454|130/309|368|99	994|776	0.09	0.7686747	1	1.02	0.89	1.17	1.04	0.79	1.38
WHS	1	0.385|0.344	254|311|101/290|275|87	666|652	4.57	0.0324944	1	0.84	0.72	0.99	0.71	0.52	0.97
PBCS 1+2	23	0.381|0.379	851|1079|317/784|1035|277	2247|2096	0.01	0.9260593	1	1.00	0.91	1.09	0.99	0.83	1.18

Locus	Alleles	Chr	Location	Neighborhood											
rs11077820	T|C	17q25.1		71966263	UBE2O,AANAT										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	22	0.371|0.365	4056|4814|1411|3845|4226|1308	10281|9379	2.26	0.1330961	1	0.97	0.93	1.01	0.94	0.86	0.86	1.02	
NHS	16	0.382|0.370	429|553|160|475|492|178	1142|1145	1.05	0.3046602	1	0.94	0.83	1.06	0.88	0.88	0.70	1.12	
STAGE1-2	18	0.383|0.367	1953|2611|715|2229|2429|778	5279|5436	7.14	0.0075575	1	0.93	0.88	0.98	0.86	0.77	0.96	0.96	
STAGE2	18	0.383|0.366	1524|2058|555|1754|1937|600	4137|4291	6.13	0.0132661	1	0.92	0.87	0.98	0.85	0.75	0.97	0.97	
CPSII	23	0.377|0.374	216|242|83|205|260|70	541|535	0.01	0.9336683	1	0.99	0.83	1.18	0.99	0.69	1.40	1.40	
PBCS1	13	0.375|0.353	193|244|67|284|298|87	504|669	0.96	0.3267839	1	0.92	0.77	1.09	0.84	0.59	1.19	1.19	
PLCO	12	0.371|0.355	371|484|120|395|430|121	975|946	1.64	0.2001604	1	0.92	0.80	1.05	0.84	0.64	1.10	1.10	
WHI	20	0.385|0.374	871|1215|320|962|1071|359	2406|2392	1.53	0.2153715	1	0.95	0.87	1.03	0.90	0.76	1.06	1.06	
STAGE3	15	0.359|0.362	2103|2202|697|1617|1799|530	5002|3946	0.40	0.5248131	1	1.02	0.96	1.08	1.04	0.92	1.18	1.18	
NHS2	12	0.364|0.374	446|495|150|219|253|80	1091|552	0.30	0.5869866	1	1.04	0.90	1.21	1.09	0.81	1.46	1.46	
NOR	15	0.329|0.316	225|216|55|233|237|44	496|514	0.39	0.5313379	1	0.94	0.78	1.14	0.89	0.60	1.30	1.30	
PBCS2	5	0.359|0.375	732|784|238|563|671|204	1754|1438	1.69	0.1930783	1	1.07	0.97	1.18	1.14	0.93	1.40	1.40	
USRT	18	0.371|0.380	405|441|148|303|353|118	994|774	0.13	0.7188197	1	1.03	0.90	1.17	1.05	0.80	1.38	1.38	
WHS	8	0.358|0.339	295|266|106|299|285|84	667|668	1.01	0.3141812	1	0.92	0.79	1.08	0.85	0.63	1.16	1.16	
PBCS 1+2	18	0.362|0.368	925|1029|304|846|967|291	2258|2104	0.26	0.610788	1	1.02	0.94	1.12	1.05	0.88	1.25	1.25	

Locus	Alleles	Chr	Location	Neighborhood											
rs17740709	A|G	12q21.31		81947471	TMT2C										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	23	0.220|0.215	6248|3554|485|5841|3051|491	10287|9383	1.84	0.1746109	1	0.97	0.92	1.01	0.94	0.85	1.03	1.03	
NHS	20	0.218|0.212	692|402|48|725|355|65	1142|1145	0.21	0.6475572	1	0.97	0.84	1.11	0.94	0.71	1.24	1.24	
STAGE1-2	23	0.218|0.214	3201|1869|215|3403|1742|295	5285|5440	0.51	0.4769407	1	0.98	0.92	1.04	0.95	0.84	1.09	1.09	
STAGE2	23	0.217|0.215	2509|1467|167|2678|1387|230	4143|4295	0.32	0.5713257	1	0.98	0.91	1.05	0.96	0.83	1.11	1.11	
CPSII	12	0.215|0.200	328|197|18|343|170|22	543|535	0.85	0.3560504	1	0.90	0.73	1.12	0.82	0.53	1.26	1.26	
PBCS1	18	0.242|0.247	282|203|21|383|241|45	506|669	0.21	0.6475451	1	1.05	0.86	1.27	1.10	0.74	1.62	1.62	
PLCO	15	0.214|0.203	603|326|46|610|291|47	975|948	1.02	0.3121127	1	0.92	0.79	1.08	0.85	0.63	1.16	1.16	
WHI	23	0.215|0.212	1466|851|92|1504|764|126	2409|2394	0.11	0.737969	1	0.98	0.89	1.08	0.97	0.80	1.18	1.18	
STAGE3	10	0.222|0.216	3047|1686|270|2439|1311|196	5003|3946	1.23	0.2675393	1	0.96	0.89	1.03	0.92	0.80	1.06	1.06	
NHS2	23	0.210|0.209	694|349|56|342|183|23	1099|548	0.00	0.9543065	1	0.99	0.83	1.19	0.99	0.70	1.41	1.41	
NOR	4	0.243|0.205	281|187|27|328|161|25	495|514	4.11	0.0425605	1	0.81	0.65	0.99	0.65	0.43	0.99	0.99	
PBCS2	12	0.234|0.240	1042|597|112|836|508|91	1751|1435	0.51	0.4744954	1	1.04	0.93	1.17	1.09	0.87	1.37	1.37	
USRT	8	0.212|0.195	612|339|41|501|250|27	992|778	1.81	0.1782308	1	0.89	0.75	1.05	0.79	0.57	1.11	1.11	
WHS	13	0.212|0.200	418|214|34|432|209|30	666|671	0.51	0.4768434	1	0.94	0.78	1.12	0.87	0.60	1.27	1.27	
PBCS 1+2	17	0.236|0.243	1324|799|133|1218|747|136	2256|2101	0.36	0.5501258	1	1.03	0.93	1.14	1.06	0.87	1.29	1.29	

Locus	Alleles	Chr	Location	Neighborhood											
rs7121523	G|A	11p15.4		7556781	PPFIBP2										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	24	0.158|0.162	7275|2815|227|6636|2460|293	10317|9389	1.16	0.2824677	1	1.03	0.98	1.09	1.06	0.95	1.18	1.18	
NHS	17	0.158|0.169	808|306|28|810|283|52	1142|1145	0.84	0.3601066	1	1.07	0.92	1.25	1.15	0.85	1.57	1.57	
STAGE1-2	22	0.155|0.163	3740|1443|99|3857|1390|191	5282|5438	2.01	0.1562011	1	1.05	0.98	1.13	1.11	0.96	1.29	1.29	
STAGE2	22	0.154|0.161	2932|1137|71|3047|1107|139	4140|4293	1.25	0.2635168	1	1.05	0.96	1.14	1.10	0.93	1.30	1.30	
CPSII	22	0.173|0.177	368|161|13|366|147|21	542|534	0.02	0.9010366	1	1.01	0.81	1.27	1.03	0.66	1.61	1.61	
PBCS1	14	0.138|0.156	373|123|8|481|165|22	504|668	0.92	0.3385491	1	1.12	0.89	1.41	1.25	0.79	2.00	2.00	
PLCO	17	0.156|0.166	688|270|17|661|259|28	975|948	0.53	0.4672918	1	1.07	0.90	1.27	1.14	0.80	1.62	1.62	
WHI	22	0.154|0.159	1704|664|40|1710|606|77	2408|2393	0.36	0.5463116	1	1.03	0.93	1.16	1.07	0.86	1.33	1.33	
STAGE3	24	0.162|0.161	3535|1372|127|2779|1071|102	5034|3952	0.00	0.9966278	1	1.00	0.92	1.08	1.00	0.85	1.18	1.18	
NHS2	11	0.167|0.159	777|314|30|402|141|19	1121|562	0.30	0.5859833	1	0.95	0.78	1.15	0.90	0.61	1.32	1.32	
NOR	22	0.172|0.177	342|136|17|347|147|17	495|511	0.06	0.8082091	1	1.03	0.82	1.29	1.06	0.67	1.67	1.67	
PBCS2	21	0.148|0.151	1266|440|38|1023|369|31	1744|1423	0.11	0.7362348	1	1.02	0.89	1.18	1.05	0.79	1.39	1.39	
USRT	20	0.177|0.172	668|301|25|527|223|21	994|771	0.09	0.7592526	1	0.97	0.81	1.16	0.95	0.66	1.35	1.35	

WHS	23	0.158|0.160	482|181|17|480|191|14	680|685	0.02	0.8994666	1	1.01	0.82	1.25	1.03	0.68	1.55
PBCS 1+2	13	0.146|0.153	1639|563|47|1504|533|53	2249|2090	0.87	0.3523337	1	1.06	0.94	1.19	1.12	0.88	1.42

adj_rec

Locus	Alleles	Chr	Location	Neighborhood
rs999737	C|T	14q24.1		68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	1	0.239|0.218	6009|3649|640|5718|3255|422	10298|9395	26.40	2.77E-07	1	0.72	0.63	0.81
NHS	2	0.244|0.213	660|406|76|703|394|47	1142|1144	7.64	0.0056942	1	0.59	0.41	0.86
STAGE1-2	3	0.239|0.212	3092|1863|330|3354|1858|226	5285|5438	23.83	1.05E-06	1	0.65	0.55	0.77
STAGE2	4	0.237|0.212	2432|1457|254|2651|1464|179	4143|4294	16.28	5.47E-05	1	0.67	0.55	0.81
CPSII	21	0.235|0.222	319|193|31|325|182|28	543|535	0.23	0.6316597	1	0.88	0.52	1.49
PBCS1	5	0.242|0.213	291|185|30|409|234|25	506|668	3.30	0.0692318	1	0.60	0.35	1.05
PLCO	3	0.238|0.215	576|334|65|576|336|36	975|948	7.63	0.0057293	1	0.56	0.37	0.85
WHI	7	0.235|0.209	1416|854|139|1492|801|101	2409|2394	5.97	0.0145241	1	0.72	0.55	0.94
STAGE3	2	0.240|0.226	2918|1789|310|2366|1399|195	5017|3960	5.67	0.0172124	1	0.80	0.66	0.96
NHS2	6	0.234|0.226	664|362|77|336|187|32	1103|555	0.90	0.3434484	1	0.81	0.53	1.25
NOR	7	0.257|0.215	271|195|30|319|171|25	496|515	0.71	0.3993665	1	0.79	0.46	1.37
PBCS2	6	0.236|0.226	1016|637|94|850|514|66	1747|1430	0.96	0.3279764	1	0.85	0.62	1.18
USRT	16	0.243|0.232	572|357|62|459|275|43	991|777	0.24	0.625842	1	0.90	0.60	1.35
WHS	2	0.244|0.227	395|238|47|402|252|29	680|683	4.62	0.031552	1	0.60	0.37	0.96
PBCS 1+2	2	0.237|0.222	1306|819|124|1257|746|92	2249|2095	2.77	0.095955	1	0.79	0.60	1.04

Locus	Alleles	Chr	Location	Neighborhood
rs11249433	T|C	1p11.2		120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	2	0.393|0.426	3826|4800|1637|3102|4520|1713	10263|9335	20.76	5.20E-06	1	1.19	1.10	1.28
NHS	4	0.388|0.440	425|541|170|358|563|220	1136|1141	7.38	0.0065804	1	1.36	1.09	1.69
STAGE1-2	16	0.403|0.432	1899|2492|874|1732|2693|994	5265|5419	5.98	0.0144613	1	1.13	1.02	1.25
STAGE2	17	0.407|0.430	1474|1951|704|1374|2130|774	4129|4278	1.76	0.1844194	1	1.08	0.96	1.21
CPSII	22	0.378|0.417	220|235|88|178|267|89	543|534	0.05	0.8242282	1	1.04	0.75	1.44
PBCS1	15	0.387|0.393	195|230|81|243|326|100	506|669	0.45	0.5026901	1	0.89	0.65	1.24
PLCO	22	0.420|0.421	324|476|169|315|465|165	969|945	0.00	0.9462366	1	0.99	0.78	1.26
WHI	13	0.407|0.444	857|1133|411|727|1192|462	2401|2381	4.35	0.0370434	1	1.17	1.01	1.35
STAGE3	1	0.383|0.417	1931|2310|763|1370|1827|719	5004|3916	16.81	4.13E-05	1	1.27	1.13	1.42
NHS2	1	0.395|0.446	418|522|182|179|251|120	1122|550	7.83	0.0051469	1	1.44	1.11	1.87
NOR	2	0.380|0.408	184|242|66|180|244|86	492|510	2.11	0.1465054	1	1.30	0.91	1.84
PBCS2	1	0.362|0.398	719|778|240|518|661|231	1737|1410	4.90	0.0267818	1	1.25	1.03	1.52
USRT	17	0.385|0.410	387|443|159|271|371|132	989|774	0.23	0.6297417	1	1.06	0.83	1.37
WHS	1	0.419|0.446	223|325|116|222|300|150	664|672	4.98	0.0257083	1	1.36	1.04	1.78
PBCS 1+2	4	0.368|0.397	910|1006|321|761|987|331	2237|2079	2.14	0.1434298	1	1.13	0.96	1.34

Locus	Alleles	Chr	Location	Neighborhood
rs7121523	G|A	11p15.4		7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	3	0.158|0.162	7275|2815|227|6636|2460|293	10317|9389	16.27	5.48E-05	1	1.44	1.20	1.72
NHS	5	0.158|0.169	808|306|28|810|283|52	1142|1145	7.20	0.0072756	1	1.88	1.18	3.01
STAGE1-2	1	0.155|0.163	3740|1443|99|3857|1390|191	5282|5438	27.50	1.57E-07	1	1.91	1.49	2.45
STAGE2	2	0.154|0.161	2932|1137|71|3047|1107|139	4140|4293	20.12	7.26E-06	1	1.92	1.44	2.57
CPSII	6	0.173|0.177	368|161|13|366|147|21	542|534	2.07	0.1504554	1	1.67	0.82	3.38
PBCS1	3	0.138|0.156	373|123|8|481|165|22	504|668	3.59	0.058289	1	2.18	0.96	4.98
PLCO	5	0.156|0.166	688|270|17|661|259|28	975|948	2.91	0.0878722	1	1.70	0.92	3.14
WHI	2	0.154|0.159	1704|664|40|1710|606|77	2408|2393	12.37	0.0004372	1	1.98	1.34	2.91
STAGE3	19	0.162|0.161	3535|1372|127|2779|1071|102	5034|3952	0.06	0.8052204	1	1.03	0.79	1.35

NHS2	11	0.167|0.159	777|314|30|402|141|19	1121|562	0.68	0.4111839	1	1.28	0.71	2.29
NOR	21	0.172|0.177	342|136|17|347|147|17	495|511	0.02	0.8863462	1	0.95	0.48	1.89
PBCS2	24	0.148|0.151	1266|440|38|1023|369|31	1744|1423	0.00	0.994883	1	1.00	0.62	1.62
USRT	18	0.177|0.172	668|301|25|527|223|21	994|771	0.09	0.7580153	1	1.10	0.61	1.98
WHS	16	0.158|0.160	482|181|17|480|191|14	680|685	0.33	0.5670684	1	0.81	0.40	1.66
PBCS 1+2	9	0.146|0.153	1639|563|47|1504|533|53	2249|2090	0.79	0.3730131	1	1.20	0.80	1.79

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	4	0.424|0.413	3455|4960|1895|3179|4677|1549	10310|9405	13.98	1.85E-04	1	0.87	0.81	0.94
NHS	9	0.425|0.431	405|502|233|349|605|191	1140|1145	5.40	0.0201915	1	0.78	0.63	0.96
STAGE1-2	6	0.436|0.419	1716|2524|1043|1778|2767|895	5283|5440	19.04	1.28E-05	1	0.80	0.73	0.89
STAGE2	7	0.440|0.416	1311|2022|810|1429|2162|704	4143|4295	13.51	2.37E-04	1	0.81	0.73	0.91
CPSII	2	0.475|0.415	158|254|131|184|258|93	543|535	6.88	0.0087376	1	0.67	0.50	0.90
PBCS1	1	0.415|0.369	186|220|100|264|316|89	506|669	7.49	0.0062177	1	0.64	0.47	0.88
PLCO	15	0.419|0.411	324|485|166|320|476|152	975|948	0.29	0.5886408	1	0.94	0.73	1.19
WHI	11	0.450|0.433	729|1192|488|743|1229|422	2409|2394	5.43	0.019818	1	0.84	0.73	0.97
STAGE3	16	0.412|0.406	1739|2436|853|1402|1912|654	5028|3968	0.22	0.6353319	1	0.97	0.87	1.09
NHS2	14	0.417|0.427	378|542|193|187|267|105	1113|559	0.52	0.4692622	1	1.10	0.85	1.43
NOR	20	0.390|0.400	186|231|77|187|245|84	494|516	0.08	0.7712401	1	1.05	0.75	1.47
PBCS2	20	0.400|0.394	625|849|274|528|682|223	1748|1433	0.04	0.8390498	1	0.98	0.81	1.19
USRT	11	0.439|0.415	313|490|192|268|373|136	995|777	0.90	0.3422177	1	0.89	0.70	1.13
WHS	12	0.412|0.408	237|324|117|232|345|106	678|683	0.75	0.3873	1	0.88	0.66	1.17
PBCS 1+2	3	0.403|0.386	811|1069|373|791|996|312	2253|2099	2.37	0.1238392	1	0.88	0.74	1.04

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	5	0.406|0.429	3665|4889|1739|3084|4520|1763	10293|9367	12.22	0.0004718	1	1.14	1.06	1.23
NHS	18	0.392|0.435	429|513|186|350|583|203	1128|1136	0.74	0.3894679	1	1.10	0.88	1.37
STAGE1-2	12	0.402|0.427	1895|2517|858|1797|2627|1006	5270|5430	9.88	0.0016683	1	1.16	1.05	1.28
STAGE2	13	0.404|0.425	1466|2004|672|1447|2044|803	4142|4294	8.01	0.0046631	1	1.18	1.05	1.32
CPSII	11	0.427|0.399	178|265|99|193|257|85	542|535	1.07	0.3001011	1	0.84	0.61	1.16
PBCS1	7	0.410|0.460	174|249|83|193|337|139	506|669	3.04	0.0812761	1	1.31	0.97	1.78
PLCO	11	0.408|0.422	339|475|160|321|454|173	974|948	0.74	0.3911568	1	1.11	0.87	1.41
WHI	8	0.400|0.420	866|1158|385|827|1120|446	2409|2393	5.82	0.0158408	1	1.20	1.04	1.40
STAGE3	4	0.412|0.433	1770|2375|882|1289|1898|760	5027|3947	4.69	0.0303147	1	1.13	1.01	1.26
NHS2	4	0.402|0.436	413|517|193|178|270|107	1123|555	1.13	0.2882982	1	1.15	0.89	1.50
NOR	5	0.438|0.413	156|242|95|177|248|88	493|513	0.81	0.3685688	1	0.86	0.63	1.19
PBCS2	19	0.424|0.435	593|833|328|457|711|271	1754|1439	0.05	0.8300976	1	1.02	0.85	1.22
USRT	2	0.388|0.445	374|467|151|252|358|166	992|776	10.89	0.000969	1	1.51	1.18	1.93
WHS	11	0.411|0.427	234|316|115|225|311|128	665|664	0.89	0.3459178	1	1.14	0.87	1.51
PBCS 1+2	7	0.421|0.443	767|1079|410|648|1043|407	2256|2098	1.16	0.2810309	1	1.09	0.93	1.27

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	6	0.371|0.364	4130|4683|1470|3746|4431|1190	10283|9367	10.96	0.0009319	1	0.87	0.80	0.94
NHS	16	0.372|0.363	452|529|160|460|538|146	1141|1144	0.82	0.3664518	1	0.89	0.70	1.14
STAGE1-2	5	0.375|0.359	2110|2378|789|1288|2594|652	5277|5434	19.61	9.48E-06	1	0.78	0.69	0.87
STAGE2	1	0.376|0.358	1658|1849|629|1728|2056|506	4136|4290	20.48	6.02E-06	1	0.75	0.66	0.85
CPSII	1	0.371|0.333	217|240|79|228|251|51	536|530	7.05	0.0079106	1	0.60	0.41	0.88
PBCS1	2	0.387|0.374	195|230|81|242|351|74	506|667	5.06	0.0244718	1	0.68	0.48	0.95

PLCO	2	0.376|0.350	398|416|157|393|445|109	971|947	8.32	0.0039109	1	0.68	0.52	0.88
WHI	10	0.372|0.360	971|1084|353|966|1133|295	2408|2394	5.67	0.0172718	1	0.82	0.69	0.97
STAGE3	24	0.366|0.370	2020|2309|681|1558|1839|538	5010|3935	0.00	0.9644522	1	1.00	0.89	1.13
NHS2	7	0.341|0.379	493|477|140|216|265|80	1110|561	0.89	0.344396	1	1.15	0.86	1.55
NOR	11	0.366|0.372	207|214|74|201|245|69	495|515	0.49	0.482694	1	0.88	0.62	1.26
PBCS2	12	0.380|0.382	656|853|236|542|686|203	1745|1431	0.45	0.5001274	1	1.07	0.88	1.31
USRT	19	0.359|0.365	410|454|130|309|368|99	994|776	0.07	0.7880341	1	0.96	0.73	1.28
WHS	10	0.385|0.344	254|311|101|290|275|87	666|652	0.90	0.3437158	1	0.86	0.63	1.17
PBCS 1+2	14	0.381|0.379	851|1079|317|784|1035|277	2247|2096	0.54	0.4620792	1	0.94	0.79	1.12

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	7	0.221|0.241	6270|3545|506|5441|3395|564	10321|9400	10.94	0.0009422	1	1.23	1.09	1.40
NHS	1	0.215|0.249	693|402|44|652|415|78	1139|1145	9.56	0.0019888	1	1.81	1.24	2.64
STAGE1-2	2	0.216|0.243	3227|1823|226|3147|1934|354	5276|5435	25.13	5.36E-07	1	1.55	1.30	1.84
STAGE2	3	0.216|0.241	2534|1421|182|2495|1519|276	4137|4290	16.32	5.35E-05	1	1.49	1.22	1.80
CPSII	13	0.225|0.236	325|192|26|315|186|33	543|534	0.71	0.3990705	1	1.26	0.74	2.14
PBCS1	8	0.217|0.263	308|173|23|362|256|47	504|665	2.63	0.1047146	1	1.54	0.91	2.59
PLCO	9	0.223|0.238	577|359|37|546|353|49	973|948	1.56	0.2116319	1	1.32	0.85	2.06
WHI	4	0.212|0.239	1499|797|111|1412|818|163	2407|2393	10.87	0.0009749	1	1.52	1.18	1.94
STAGE3	13	0.226|0.237	3043|1724|280|2293|1464|209	5047|3966	0.29	0.5892354	1	0.95	0.79	1.14
NHS2	8	0.229|0.236	676|383|66|324|211|27	1125|562	0.84	0.3598579	1	0.81	0.51	1.28
NOR	6	0.246|0.241	284|178|33|293|191|28	495|512	0.79	0.3740258	1	0.79	0.47	1.33
PBCS2	15	0.223|0.231	1070|586|98|847|518|74	1754|1439	0.19	0.6598775	1	0.93	0.68	1.27
USRT	3	0.216|0.253	604|350|39|430|293|49	993|772	5.47	0.0193326	1	1.67	1.08	2.58
WHS	4	0.232|0.230	409|227|44|399|251|31	680|681	2.42	0.1199421	1	0.69	0.43	1.10
PBCS 1+2	19	0.221|0.241	1378|757|121|1210|771|122	2256|2103	0.35	0.5519819	1	1.08	0.83	1.40

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	8	0.209|0.226	6425|3413|446|5639|3268|487	10284|9394	8.89	0.0028664	1	1.22	1.07	1.40
NHS	7	0.204|0.244	719|381|42|654|424|67	1142|1145	6.65	0.0098967	1	1.68	1.13	2.49
STAGE1-2	8	0.208|0.229	3286|1798|201|3238|1908|291	5285|5437	15.00	1.07E-04	1	1.44	1.20	1.73
STAGE2	10	0.209|0.225	2567|1417|159|2584|1484|224	4143|4292	9.12	0.0025272	1	1.38	1.12	1.70
CPSII	3	0.196|0.218	343|187|13|329|179|27	543|535	5.32	0.0211124	1	2.18	1.11	4.31
PBCS1	9	0.210|0.222	310|179|17|406|228|34	506|668	2.03	0.1537821	1	1.55	0.85	2.82
PLCO	19	0.220|0.235	599|323|53|552|346|50	975|948	0.04	0.838376	1	0.96	0.64	1.43
WHI	6	0.206|0.226	1501|825|83|1438|829|125	2409|2392	9.13	0.0025088	1	1.54	1.16	2.05
STAGE3	20	0.211|0.221	3139|1616|245|2400|1360|196	5000|3956	0.03	0.8525889	1	1.02	0.84	1.24
NHS2	21	0.208|0.226	694|332|60|329|192|28	1086|549	0.14	0.7083227	1	0.92	0.58	1.45
NOR	14	0.210|0.233	310|164|22|301|185|27	496|513	0.42	0.5184041	1	1.21	0.68	2.16
PBCS2	23	0.208|0.216	1111|557|86|891|478|72	1754|1441	0.00	0.9707075	1	1.01	0.73	1.39
USRT	8	0.218|0.221	607|344|45|476|258|43	996|777	1.22	0.2688009	1	1.28	0.83	1.96
WHS	13	0.212|0.221	417|219|32|403|247|26	668|676	0.73	0.393952	1	0.79	0.47	1.35
PBCS 1+2	12	0.208|0.218	1421|735|103|1298|706|106	2259|2110	0.57	0.4491605	1	1.11	0.84	1.47

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	9	0.355|0.370	4295|4686|1313|3761|4282|1328	10294|9371	8.42	0.0037061	1	1.13	1.04	1.23
NHS	6	0.356|0.381	459|552|130|447|523|175	1141|1145	7.10	0.0077119	1	1.39	1.09	1.78
STAGE1-2	4	0.349|0.375	2226|2433|625|2178|2443|817	5284|5438	23.04	1.59E-06	1	1.32	1.18	1.47

STAGE2	5	0.346|0.373	1767|1881|495|1731|1920|642	4143|4293	16.24	5.58E-05	1	1.30	1.14	1.47
CPSII	12	0.350|0.339	220|266|57|238|231|66	543|535	0.77	0.3790098	1	1.19	0.81	1.73
PBCS1	11	0.345|0.356	216|231|59|287|287|94	506|668	0.91	0.3390756	1	1.19	0.83	1.69
PLCO	4	0.333|0.374	437|427|111|378|430|140	975|948	4.34	0.0373105	1	1.33	1.02	1.75
WHI	5	0.351|0.383	1018|1093|298|933|1089|371	2409|2393	9.72	0.0018263	1	1.30	1.10	1.53
STAGE3	8	0.362|0.364	2070|2257|688|1584|1840|511	5015|3935	0.98	0.3216127	1	0.94	0.83	1.06
NHS2	24	0.368|0.367	459|501|163|226|249|79	1123|554	0.01	0.905663	1	0.98	0.73	1.31
NOR	10	0.372|0.371	200|212|75|200|232|70	487|502	0.50	0.4800417	1	0.88	0.62	1.25
PBCS2	11	0.349|0.349	744|779|218|599|660|169	1741|1428	0.47	0.4915915	1	0.93	0.75	1.15
USRT	12	0.374|0.366	391|459|141|311|366|102	991|779	0.60	0.4402164	1	0.90	0.68	1.18
WHS	23	0.363|0.383	276|306|91|248|333|91	673|672	0.00	0.9955272	1	1.00	0.73	1.37
PBCS 1+2	23	0.348|0.351	959|1006|277|885|946|263	2242|2094	0.01	0.9140517	1	1.01	0.84	1.21

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	10	0.159|0.173	7305|2730|274|6459|2624|308	10309|9391	7.34	0.0067538	1	1.26	1.07	1.49
NHS	10	0.151|0.178	814|311|17|769|342|33	1142|1144	5.25	0.0219795	1	1.97	1.09	3.57
STAGE1-2	7	0.150|0.173	3805|1375|105|3737|1522|180	5285|5439	16.11	5.99E-05	1	1.64	1.29	2.10
STAGE2	9	0.150|0.172	2991|1064|88|2968|1180|147	4143|4295	11.30	0.0007754	1	1.58	1.21	2.07
CPSII	14	0.159|0.164	383|147|13|377|140|18	543|535	0.64	0.4238461	1	1.35	0.65	2.79
PBCS1	18	0.191|0.227	335|149|22|400|234|35	506|669	0.38	0.5365601	1	1.19	0.68	2.08
PLCO	13	0.144|0.166	714|241|20|658|265|25	975|948	0.40	0.5284579	1	1.21	0.66	2.21
WHI	3	0.143|0.161	1761|606|42|1700|616|78	2409|2394	11.26	0.000793	1	1.90	1.30	2.77
STAGE3	23	0.169|0.172	3500|1356|169|2722|1105|128	5025|3955	0.01	0.9252375	1	0.99	0.78	1.25
NHS2	9	0.169|0.156	777|292|42|394|140|16	1111|550	0.82	0.3640541	1	0.76	0.43	1.37
NOR	9	0.142|0.135	364|125|8|382|127|6	497|515	0.53	0.4665535	1	0.67	0.23	1.97
PBCS2	16	0.190|0.192	1158|519|73|941|441|55	1750|1437	0.16	0.6878529	1	0.93	0.65	1.33
USRT	4	0.155|0.177	713|256|26|530|216|29	995|775	2.41	0.1207454	1	1.53	0.89	2.63
WHS	18	0.152|0.166	488|164|20|475|181|22	672|678	0.08	0.7743406	1	1.09	0.59	2.03
PBCS 1+2	24	0.190|0.203	1493|667|95|1341|672|90	2255|2103	0.00	0.9652075	1	1.01	0.75	1.35

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	11	0.095|0.106	8474|1786|86|7536|1776|110	10346|9422	6.31	0.0120009	1	1.44	1.08	1.92
NHS	3	0.086|0.110	951|186|5|912|215|18	1142|1145	7.60	0.0058499	1	3.70	1.37	10.03
STAGE1-2	19	0.089|0.107	4388|850|47|4340|1031|67	5285|5438	2.71	0.0995977	1	1.37	0.94	2.00
STAGE2	21	0.090|0.106	3437|664|42|3428|816|49	4143|4293	0.19	0.6611959	1	1.10	0.72	1.67
CPSII	15	0.099|0.107	444|90|9|426|103|6	543|535	0.62	0.4321211	1	0.66	0.23	1.88
PBCS1	17	0.094|0.113	417|83|6|523|141|5	506|669	0.43	0.5096629	1	0.67	0.20	2.23
PLCO	14	0.077|0.094	832|135|8|775|167|6	975|948	0.37	0.5454454	1	0.72	0.25	2.10
WHI	19	0.094|0.111	1982|403|24|1898|459|35	2409|2392	1.98	0.159487	1	1.45	0.86	2.46
STAGE3	3	0.100|0.104	4086|937|39|3198|745|43	5062|3986	4.69	0.0302829	1	1.62	1.04	2.51
NHS2	2	0.103|0.105	905|207|12|456|92|13	1124|561	4.01	0.0452982	1	2.20	1.00	4.86
NOR	23	0.081|0.090	414|80|0|426|82|5	494|513						
PBCS2	8	0.104|0.108	1412|338|15|1152|282|16	1765|1450	0.88	0.3494566	1	1.40	0.69	2.86
USRT	21	0.105|0.106	799|184|12|622|146|9	995|777	0.00	0.9516006	1	0.97	0.41	2.34
WHS	24	0.094|0.104	556|128|0|542|143|0	684|685	-		1	1.00	1.00	1.00
PBCS 1+2	21	0.102|0.110	1829|420|21|1673|423|21	2270|2117	0.08	0.7781235	1	1.09	0.59	2.01

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	-----------------	-----------------

STAGE1-3	12	0.448|0.433	3162|5069|2091|3036|4591|1771	10322|9398	6.02	0.0141262	1	0.91	0.85	0.98
NHS	13	0.470|0.439	312|586|244|357|569|218	1142|1144	1.77	0.183506	1	0.87	0.71	1.07
STAGE1-2	13	0.454|0.430	1574|2619|1092|1768|2664|1006	5285|5438	9.02	0.0026688	1	0.87	0.79	0.96
STAGE2	14	0.450|0.427	1262|2033|848|1411|2095|788	4143|4294	6.32	0.0119282	1	0.87	0.78	0.97
CPSII	8	0.471|0.436	152|271|120|172|259|104	543|535	1.15	0.2828825	1	0.85	0.63	1.14
PBCS1	6	0.483|0.446	138|247|121|200|340|128	506|668	3.10	0.078184	1	0.77	0.58	1.03
PLCO	6	0.449|0.419	298|478|199|319|464|165	975|948	2.84	0.0922279	1	0.82	0.65	1.03
WHI	18	0.443|0.424	755|1175|479|803|1153|438	2409|2394	1.98	0.1594722	1	0.90	0.78	1.04
STAGE3	15	0.442|0.437	1588|2454|1000|1269|1929|767	5042|3965	0.26	0.6107471	1	0.97	0.88	1.08
NHS2	15	0.440|0.436	363|535|227|175|278|104	1125|557	0.52	0.4702881	1	0.91	0.70	1.18
NOR	16	0.391|0.401	184|235|76|188|240|86	495|514	0.34	0.5573645	1	1.11	0.79	1.55
PBCS2	9	0.457|0.441	518|863|368|456|695|287	1749|1438	0.69	0.4056927	1	0.93	0.78	1.11
USRT	15	0.454|0.444	295|489|205|243|378|156	989|777	0.27	0.6023517	1	0.94	0.74	1.19
WHS	14	0.424|0.446	228|332|124|207|338|134	684|679	0.55	0.4563198	1	1.11	0.84	1.46
PBCS 1+2	1	0.463|0.442	656|1106|488|655|1033|413	2250|2101	3.19	0.0742003	1	0.87	0.75	1.01

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	13	0.322|0.332	4732|4516|1068|4222|4118|1068	10316|9408	4.96	0.0259078	1	1.11	1.01	1.21
NHS	15	0.318|0.330	524|510|108|514|505|125	1142|1144	1.23	0.2682136	1	1.17	0.89	1.53
STAGE1-2	18	0.325|0.341	2407|2312|562|2371|2415|643	5281|5429	3.34	0.0675968	1	1.12	0.99	1.26
STAGE2	16	0.327|0.344	1883|1802|454|1857|1910|518	4139|4285	2.22	0.1362461	1	1.11	0.97	1.27
CPSII	18	0.334|0.345	243|231|64|235|227|70	538|532	0.44	0.5079772	1	1.13	0.78	1.64
PBCS1	14	0.319|0.333	229|228|47|292|299|71	504|662	0.55	0.4575176	1	1.16	0.78	1.72
PLCO	7	0.335|0.344	440|417|118|397|449|101	975|947	2.09	0.1483077	1	0.81	0.61	1.08
WHI	12	0.326|0.346	1097|1051|260|1047|1038|309	2408|2394	5.28	0.0215968	1	1.23	1.03	1.47
STAGE3	7	0.319|0.322	2324|2205|506|1845|1706|426	5035|3977	1.36	0.2430578	1	1.09	0.95	1.25
NHS2	18	0.317|0.311	518|491|109|277|232|61	1118|570	0.38	0.5394847	1	1.11	0.80	1.54
NOR	4	0.262|0.290	269|194|33|258|215|42	496|515	0.84	0.3608204	1	1.25	0.78	2.00
PBCS2	5	0.330|0.339	789|789|189|634|637|171	1767|1442	1.08	0.2986083	1	1.12	0.90	1.40
USRT	9	0.338|0.317	442|434|119|366|331|81	995|778	1.22	0.2697906	1	0.84	0.62	1.14
WHS	5	0.310|0.322	306|297|56|310|291|71	659|672	1.65	0.1994188	1	1.27	0.88	1.84
PBCS 1+2	6	0.328|0.336	1019|1016|236|932|933|241	2271|2106	1.42	0.2335519	1	1.12	0.93	1.36

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	14	0.228|0.246	6153|3643|540|5335|3514|552	10336|9401	4.59	0.0321134	1	1.14	1.01	1.29
NHS	8	0.220|0.263	690|402|50|617|454|74	1142|1145	5.58	0.0181904	1	1.56	1.08	2.25
STAGE1-2	15	0.228|0.250	3134|1895|256|3048|2068|324	5285|5440	6.73	0.0094921	1	1.25	1.06	1.48
STAGE2	15	0.230|0.246	2444|1493|206|2431|1614|250	4143|4295	2.84	0.0916681	1	1.18	0.97	1.43
CPSII	4	0.215|0.236	326|200|17|313|192|30	543|535	4.10	0.0428658	1	1.87	1.01	3.44
PBCS1	12	0.226|0.238	299|185|22|387|245|37	506|669	0.74	0.3881004	1	1.27	0.73	2.21
PLCO	16	0.236|0.258	578|334|63|516|375|57	975|948	0.27	0.6028112	1	0.91	0.62	1.32
WHI	16	0.229|0.248	1421|875|113|1349|904|141	2409|2394	3.42	0.0644162	1	1.27	0.99	1.64
STAGE3	17	0.229|0.240	3019|1748|284|2287|1449|229	5051|3965	0.11	0.7457737	1	1.03	0.86	1.23
NHS2	17	0.228|0.233	687|372|72|328|198|31	1131|557	0.42	0.5146119	1	0.87	0.56	1.34
NOR	17	0.232|0.253	292|179|26|284|200|30	497|514	0.19	0.662648	1	1.13	0.66	1.94
PBCS2	17	0.226|0.231	1063|591|102|854|504|81	1756|1439	0.11	0.7348676	1	0.95	0.70	1.28
USRT	7	0.240|0.246	567|373|51|445|276|52	991|773	1.80	0.1800643	1	1.31	0.88	1.96
WHS	20	0.221|0.250	410|233|33|376|271|35	676|682	0.04	0.8381202	1	1.05	0.65	1.72
PBCS 1+2	22	0.226|0.233	1362|776|124|1241|746|117	2262|2104	0.03	0.8689584	1	1.02	0.79	1.33

Locus Alleles Chr Location Neighborhood

rs12608723	A|G	19q13.11	38508973							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.136|0.128	7735|2378|2177|1555|2085|163	10330|9403	3.72	0.0536754	1	0.82	0.66	1.00
NHS	11	0.153|0.123	819|296|27|877|252|15	1142|1144	3.97	0.0464475	1	0.53	0.28	1.00
STAGE1-2	17	0.143|0.126	3888|1281|116|4158|1190|91	5285|5439	4.15	0.0415757	1	0.76	0.58	1.00
STAGE2	18	0.140|0.127	3069|985|89|3281|938|76	4143|4295	1.38	0.2397158	1	0.83	0.61	1.13
CPSII	16	0.140|0.120	398|138|7|417|108|10	543|535	0.61	0.4339525	1	1.48	0.55	3.93
PBCS1	19	0.153|0.129	364|129|13|510|146|13	506|669	0.34	0.557087	1	0.79	0.36	1.74
PLCO	23	0.132|0.124	738|216|21|732|196|20	975|948	0.00	0.9483054	1	1.02	0.55	1.91
WHI	15	0.141|0.128	1783|572|54|1818|540|36	2409|2394	3.58	0.0586298	1	0.66	0.43	1.02
STAGE3	11	0.129|0.132	3849|1100|101|2997|901|72	5050|3970	0.48	0.4881134	1	0.90	0.66	1.22
NHS2	19	0.126|0.123	869|243|21|433|113|12	1133|558	0.18	0.6715833	1	1.17	0.57	2.39
NOR	22	0.128|0.167	380|103|12|356|148|12	495|516	0.00	0.9980263	1	1.00	0.44	2.25
PBCS2	7	0.124|0.118	1344|368|32|1120|300|20	1744|1440	0.88	0.3469728	1	0.76	0.43	1.34
USRT	20	0.138|0.142	736|239|17|573|191|15	992|779	0.06	0.8138278	1	1.09	0.54	2.21
WHS	9	0.135|0.129	520|147|19|515|149|13	686|677	1.07	0.3009686	1	0.69	0.34	1.40
PBCS 1+2	5	0.130|0.120	1706|494|45|1630|440|33	2245|2103	1.55	0.2129891	1	0.75	0.47	1.18
Locus	Alleles	Chr	Location	Neighborhood						
rs724244	C|T	3p24.1		27217157	NEK10					
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.261|0.275	5011|3522|635|4351|3283|626	9168|8260	3.64	0.0564546	1	1.12	1.00	1.26
STAGE1-2	10	0.252|0.281	2304|1588|250|2220|1730|341	4142|4291	11.92	0.0005565	1	1.34	1.13	1.59
STAGE2	8	0.252|0.281	2304|1588|250|2220|1730|341	4142|4291	11.55	0.0006791	1	1.34	1.13	1.59
CPSII	10	0.247|0.273	309|198|35|287|202|45	542|534	1.08	0.299804	1	1.28	0.80	2.03
PBCS1	16	0.246|0.265	293|177|36|368|245|54	506|667	0.44	0.5054535	1	1.16	0.74	1.82
PLCO	1	0.230|0.291	569|364|42|481|381|85	975|947	16.03	6.25E-05	1	2.17	1.47	3.19
WHI	20	0.263|0.283	1302|949|158|1217|998|179	2409|2394	1.52	0.2179869	1	1.15	0.92	1.44
STAGE3	12	0.269|0.267	2707|1938|385|2132|1554|285	5030|3971	0.39	0.5331514	1	0.95	0.81	1.12
NHS2	23	0.269|0.281	611|397|100|293|218|48	1108|559	0.09	0.7677601	1	0.95	0.66	1.36
NOR	12	0.248|0.264	276|192|27|278|204|34	495|516	0.49	0.4837855	1	1.20	0.71	2.03
PBCS2	4	0.273|0.261	926|696|131|778|567|92	1753|1437	1.42	0.2336174	1	0.85	0.64	1.12
USRT	23	0.273|0.267	524|397|73|418|302|56	994|776	0.00	0.9814563	1	1.00	0.69	1.43
WHS	22	0.268|0.273	370|256|54|365|263|55	680|683	0.01	0.9433545	1	1.01	0.69	1.50
PBCS 1+2	17	0.267|0.262	1219|869|167|1145|811|146	2255|2102	0.46	0.4973663	1	0.92	0.73	1.16
Locus	Alleles	Chr	Location	Neighborhood						
rs37936	A|G	7q21.11		79806994						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.384|0.371	3916|4697|1559|3704|4197|1330	10172|9231	3.63	0.056802	1	0.93	0.85	1.00
NHS	19	0.400|0.365	403|541|178|474|476|171	1122|1121	0.26	0.6089729	1	0.94	0.75	1.19
STAGE1-2	9	0.400|0.368	1731|2149|797|1897|2074|674	4677|4645	12.17	0.0004854	1	0.82	0.73	0.92
STAGE2	6	0.400|0.369	1328|1608|619|1423|1598|503	3555|3524	13.71	2.14E-04	1	0.78	0.69	0.89
CPSII	20	0.387|0.373	199|251|79|202|249|70	529|521	0.38	0.5366369	1	0.90	0.63	1.27
PLCO	18	0.378|0.376	379|431|146|373|394|147	956|914	0.12	0.7277725	1	1.05	0.81	1.35
WHI	1	0.409|0.368	857|1064|430|933|1084|316	2351|2333	20.01	7.71E-06	1	0.70	0.60	0.82
STAGE3	10	0.371|0.377	1992|2333|700|1552|1840|573	5025|3965	0.59	0.442805	1	1.05	0.93	1.18
NHS2	3	0.366|0.398	457|508|157|212|261|96	1122|569	2.45	0.1171765	1	1.25	0.95	1.65
NOR	8	0.364|0.345	202|227|67|221|233|61	496|515	0.69	0.4062247	1	0.85	0.59	1.24
PBCS2	2	0.368|0.364	706|782|248|568|669|183	1736|1420	1.76	0.1845904	1	0.87	0.71	1.07
USRT	6	0.393|0.403	356|496|143|283|364|132	995|779	2.01	0.1565594	1	1.21	0.93	1.56
WHS	6	0.362|0.378	271|320|85|268|313|101	676|682	1.41	0.2348941	1	1.21	0.88	1.65
PBCS 1+2	8	0.367|0.364	899|997|310|823|952|266	2206|2041	1.09	0.2958707	1	0.91	0.76	1.09

Locus	Alleles	Chr	Location	Neighborhood						
rs4666451	G|A	2p24.1		19150424						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.391|0.382	3412|4325|1424|3148|3915|1197	9161|8260	3.49	0.0616468	1	0.92	0.85	1.00
STAGE1-2	14	0.398|0.376	1509|1968|666|1657|2045|593	4143|4295	8.56	0.0034393	1	0.84	0.74	0.94
STAGE2	11	0.398|0.376	1509|1968|666|1657|2045|593	4143|4295	8.53	0.0034891	1	0.84	0.74	0.94
CPSII	7	0.394|0.400	201|256|86|177|288|70	543|535	1.86	0.1720731	1	0.79	0.56	1.11
PBCS1	13	0.409|0.380	176|246|84|257|316|96	506|669	0.72	0.3977717	1	0.87	0.63	1.20
PLCO	10	0.393|0.373	355|474|146|363|462|123	975|948	1.53	0.2168576	1	0.85	0.65	1.10
WHI	14	0.397|0.372	890|1125|394|950|1105|339	2409|2394	4.29	0.0384419	1	0.85	0.72	0.99
STAGE3	21	0.386|0.388	1905|2358|758|1491|1874|604	5021|3969	0.03	0.8623217	1	1.01	0.90	1.14
NHS2	22	0.382|0.384	428|504|169|211|263|82	1101|556	0.10	0.7498255	1	0.95	0.72	1.27
NOR	18	0.363|0.355	201|230|65|214|238|64	496|516	0.18	0.6744368	1	0.92	0.64	1.34
PBCS2	3	0.399|0.411	621|858|268|504|692|247	1747|1443	1.70	0.1922815	1	1.13	0.94	1.37
USRT	10	0.382|0.370	389|452|154|309|358|108	995|775	1.17	0.2787719	1	0.86	0.66	1.13
WHS	21	0.380|0.390	266|314|102|253|323|103	682|679	0.01	0.9150459	1	1.02	0.75	1.37
PBCS 1+2	18	0.402|0.401	795|1103|352|761|1004|343	2250|2108	0.44	0.5071048	1	1.06	0.90	1.24

Locus	Alleles	Chr	Location	Neighborhood						
rs10941679	A|G	5p12		44742255						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.259|0.280	3015|2105|370|2365|1859|351	5490|4575	3.06	0.0804523	1	1.15	0.98	1.34
STAGE3	6	0.259|0.278	2759|1911|343|2048|1601|295	5013|3944	1.48	0.2238961	1	1.11	0.94	1.30
NHS2	5	0.256|0.280	607|415|73|286|220|44	1095|550	0.98	0.3220527	1	1.22	0.82	1.80
NOR	13	0.303|0.282	239|213|44|265|210|40	496|515	0.48	0.4881904	1	0.85	0.54	1.34
PBCS2	21	0.259|0.276	969|667|121|737|605|94	1757|1436	0.03	0.8581738	1	0.97	0.74	1.29
USRT	1	0.236|0.290	575|373|49|395|307|71	997|773	12.82	0.0003436	1	1.98	1.35	2.89
WHS	8	0.266|0.262	369|243|56|365|259|46	668|670	1.10	0.2938582	1	0.80	0.54	1.21
PBCS 1+2	11	0.259|0.281	1225|861|148|1054|863|150	2234|2067	0.62	0.4318533	1	1.10	0.87	1.39

Locus	Alleles	Chr	Location	Neighborhood							
rs17740709	A|G	12q21.31		81947471	TMTC2						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	20	0.220|0.215	6248|3554|485|5841|3051|491	10287|9383	2.92	0.0873265	1	1.12	0.98	1.27	
NHS	12	0.218|0.212	692|402|48|725|355|65	1142|1145	3.03	0.0817077	1	1.40	0.96	2.06	
STAGE1-2	11	0.218|0.214	3201|1869|215|3403|1742|295	5285|5440	11.20	0.0008181	1	1.36	1.14	1.63	
STAGE2	12	0.217|0.215	2509|1467|167|2678|1387|230	4143|4295	8.19	0.0042098	1	1.35	1.10	1.65	
CPSII	17	0.215|0.200	328|197|18|343|170|22	543|535	0.50	0.4794669	1	1.26	0.66	2.40	
PBCS1	4	0.242|0.247	282|203|21|383|241|45	506|669	3.57	0.0586981	1	1.67	0.98	2.87	
PLCO	20	0.214|0.203	603|326|46|610|291|47	975|948	0.02	0.9010814	1	1.03	0.67	1.57	
WHI	9	0.215|0.212	1466|851|92|1504|764|126	2409|2394	5.72	0.0167588	1	1.40	1.06	1.84	
STAGE3	9	0.222|0.216	3047|1686|270|2439|1311|196	5003|3946	0.86	0.3539935	1	0.91	0.76	1.11	
NHS2	12	0.210|0.209	694|349|56|342|183|23	1099|548	0.65	0.4204136	1	0.82	0.50	1.34	
NOR	19	0.243|0.205	281|187|27|328|161|25	495|514	0.17	0.6807346	1	0.89	0.51	1.56	
PBCS2	22	0.234|0.240	1042|597|112|836|508|91	1751|1435	0.01	0.9422687	1	1.01	0.76	1.35	
USRT	14	0.212|0.195	612|339|41|501|250|27	992|778	0.34	0.5584656	1	0.86	0.52	1.42	
WHS	17	0.212|0.200	418|214|34|432|209|30	666|671	0.30	0.5832056	1	0.87	0.53	1.44	
PBCS 1+2	10	0.236|0.243	1324|799|133|1218|747|136	2256|2101	0.76	0.3848307	1	1.12	0.87	1.43	

Locus	Alleles	Chr	Location	Neighborhood							
rs2303659	G|A	11q24.3		129326474	PRDM10						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	21	0.035|0.028	9603|693|10|8879|500|14	10306|9393	2.05	0.1526033	1	1.81	0.79	4.15	

NHS	22	0.034|0.024	1064|78|0|1089|56|0	1142|1145	-	1	1	1.00	1.00	1.00
STAGE1-2	21	0.034|0.025	4927|356|2|5166|271|3	5285|5440	0.08	0.7837882	1	1.29	0.21	7.80
STAGE2	22	0.034|0.026	3863|278|2|4077|215|3	4143|4295	0.07	0.7847462	1	1.28	0.21	7.79
CPSII	24	0.030|0.017	510|33|0|518|16|1	543|535						
PBCS1	22	0.033|0.022	473|33|0|640|29|0	506|669	-	1	1	1.00	1.00	1.00
PLCO	17	0.036|0.028	906|68|1|895|52|1	975|948	0.14	0.7119662	1	0.59	0.03	10.25
WHI	23	0.034|0.026	2245|163|1|2269|124|1	2409|2394	-	0.9982998	1	1.00	0.06	16.06
STAGE3	5	0.035|0.032	4676|337|8|3714|229|11	5021|3954	2.24	0.1343277	1	2.00	0.79	5.05
NHS2	16	0.039|0.025	1029|77|5|534|20|4	1111|558	0.51	0.4764601	1	1.61	0.43	6.02
NOR	24	0.036|0.043	460|36|0|472|44|0	496|516	-	1	1	1.00	1.00	1.00
PBCS2	10	0.032|0.030	1648|112|1|1358|83|2	1761|1443	0.61	0.4350192	1	2.53	0.23	28.17
USRT	24	0.037|0.035	920|74|0|723|54|0	994|777	-	1	1	1.00	1.00	1.00
WHS	7	0.032|0.029	619|38|2|627|28|5	659|660	1.25	0.2630372	1	2.48	0.48	12.88
PBCS 1+2	13	0.032|0.027	2121|145|1|1997|112|2	2267|2111	0.55	0.4566182	1	2.42	0.22	26.81

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O, AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.371|0.365	4056|4814|1411|3845|4226|1308	10281|9379	0.18	0.6720734	1	1.02	0.94	1.10
NHS	17	0.382|0.370	429|553|160|475|492|178	1142|1145	0.77	0.3810732	1	1.11	0.88	1.40
STAGE1-2	20	0.383|0.367	1953|2611|715|2229|2429|778	5279|5436	0.95	0.3286054	1	1.06	0.95	1.18
STAGE2	19	0.383|0.366	1524|2058|555|1754|1937|600	4137|4291	0.41	0.5229974	1	1.04	0.92	1.18
CPSII	9	0.377|0.374	216|242|83|205|260|70	541|535	1.14	0.2860925	1	0.83	0.59	1.17
PBCS1	21	0.375|0.353	193|244|67|284|298|87	504|669	0.02	0.8854299	1	0.97	0.69	1.38
PLCO	21	0.371|0.355	371|484|120|395|430|121	975|946	0.01	0.905996	1	1.02	0.77	1.34
WHI	17	0.385|0.374	871|1215|320|962|1071|359	2406|2392	2.72	0.0988169	1	1.15	0.97	1.35
STAGE3	14	0.359|0.362	2103|2202|697|1617|1799|530	5002|3946	0.27	0.6011372	1	0.97	0.86	1.09
NHS2	20	0.364|0.374	446|495|150|219|253|80	1091|552	0.17	0.6759962	1	1.06	0.79	1.43
NOR	3	0.329|0.316	225|216|55|233|237|44	496|514	1.79	0.1804242	1	0.75	0.49	1.14
PBCS2	14	0.359|0.375	732|784|238|563|671|204	1754|1438	0.31	0.5800375	1	1.06	0.86	1.30
USRT	22	0.371|0.380	405|441|148|303|353|118	994|774	0.00	0.9573176	1	1.01	0.77	1.31
WHS	3	0.358|0.339	295|266|106|299|285|84	667|668	3.04	0.0812051	1	0.76	0.56	1.04
PBCS 1+2	20	0.362|0.368	925|1029|304|846|967|291	2258|2104	0.14	0.7051752	1	1.03	0.87	1.23

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.254|0.246	5706|3954|643|5366|3460|582	10303|9408	0.01	0.9306505	1	0.99	0.89	1.12
NHS	20	0.256|0.240	635|430|77|673|395|77	1142|1145	0.00	0.9949752	1	1.00	0.72	1.39
STAGE1-2	22	0.263|0.244	2852|2086|344|3144|1940|355	5282|5439	0.01	0.9217735	1	1.01	0.86	1.18
STAGE2	23	0.264|0.245	2217|1656|267|2471|1545|278	4140|4294	0.01	0.909302	1	1.01	0.85	1.20
CPSII	19	0.266|0.233	286|224|32|323|175|37	542|535	0.39	0.5308112	1	1.17	0.72	1.92
PBCS1	20	0.247|0.226	284|193|28|406|222|40	505|668	0.07	0.7864181	1	1.07	0.65	1.78
PLCO	12	0.263|0.249	526|385|64|546|332|70	975|948	0.51	0.4730249	1	1.14	0.80	1.63
WHI	21	0.270|0.247	1272|973|163|1358|890|146	2408|2394	0.84	0.3604068	1	0.90	0.71	1.13
STAGE3	18	0.246|0.249	2854|1868|299|2222|1521|226	5021|3969	0.07	0.7850201	1	0.98	0.82	1.17
NHS2	13	0.266|0.235	598|438|77|330|197|33	1113|560	0.64	0.4237812	1	0.84	0.55	1.28
NOR	1	0.192|0.237	326|153|19|301|185|30	498|516	2.39	0.1218661	1	1.59	0.88	2.87
PBCS2	13	0.245|0.264	993|643|105|769|569|94	1741|1432	0.38	0.5357443	1	1.10	0.82	1.46
USRT	5	0.254|0.240	553|376|64|442|301|37	993|780	2.30	0.1292875	1	0.72	0.48	1.10
WHS	19	0.241|0.244	384|258|34|380|269|32	676|681	0.08	0.7784936	1	0.93	0.57	1.53
PBCS 1+2	15	0.245|0.252	1277|836|133|1175|790|135	2246|2100	0.54	0.4622976	1	1.10	0.86	1.41

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.223|0.212	6195|3596|493|5841|3084|449	10284|9374	0.00	0.979985	1	1.00	0.87	1.14
NHS	14	0.220|0.189	695|392|55|754|349|42	1142|1145	1.76	0.184903	1	0.76	0.50	1.14
STAGE1-2	23	0.220|0.201	3183|1875|227|3482|1721|235	5285|5438	0.00	0.9604555	1	1.00	0.83	1.20
STAGE2	20	0.220|0.205	2488|1483|172|2728|1372|193	4143|4293	0.40	0.5287832	1	1.07	0.87	1.32
CPSII	5	0.217|0.205	323|203|16|341|165|27	542|533	2.96	0.0854227	1	1.73	0.92	3.27
PBCS1	10	0.244|0.239	284|197|25|391|235|42	506|668	1.04	0.306736	1	1.31	0.78	2.20
PLCO	8	0.229|0.199	577|350|48|606|307|35	975|948	1.96	0.1620425	1	0.73	0.46	1.14
WHI	22	0.213|0.196	1476|838|95|1557|734|102	2409|2393	0.27	0.6003781	1	1.08	0.81	1.44
STAGE3	22	0.225|0.227	3013|1723|266|2360|1365|213	5002|3938	0.02	0.8948601	1	1.01	0.84	1.22
NHS2	10	0.200|0.204	712|332|53|344|181|21	1097|546	0.80	0.3713822	1	0.79	0.47	1.32
NOR	15	0.221|0.219	297|179|20|314|175|25	496|514	0.38	0.5366419	1	1.21	0.66	2.21
PBCS2	18	0.252|0.258	980|644|117|793|540|99	1741|1432	0.08	0.7764969	1	1.04	0.79	1.38
USRT	13	0.206|0.205	626|327|41|495|242|38	994|775	0.58	0.4472431	1	1.19	0.76	1.88
WHS	15	0.231|0.214	398|241|35|414|227|30	674|671	0.38	0.539413	1	0.86	0.52	1.41
PBCS 1+2	16	0.250|0.252	1263|839|142|1183|773|142	2244|2098	0.47	0.4932537	1	1.09	0.85	1.39

unadj_geno

Locus	Alleles	Chr	Location	Neighborhood
rs11249433	T|C	1p11.2		120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.393|0.425	3965|4951|1699|3207|4650|1761	10615|9618	41.63	9.11E-10	2	1.16	1.09	1.23	1.28	1.18	1.39
NHS	3	0.388|0.440	425|541|170|358|563|220	1136|1141	12.57	0.0018633	2	1.24	1.03	1.48	1.54	1.20	1.96
STAGE1-2	7	0.401|0.431	2022|2615|919|1821|2814|1036	5556|5671	23.63	7.38E-06	2	1.19	1.10	1.30	1.25	1.12	1.40
STAGE2	14	0.404|0.429	1597|2074|749|1463|2251|816	4420|4530	14.63	0.0006654	2	1.18	1.08	1.30	1.19	1.05	1.34
CPSII	5	0.378|0.417	220|235|88|178|267|89	543|534	6.40	0.0407034	2	1.40	1.08	1.83	1.25	0.88	1.78
PBCS1	18	0.387|0.393	195|230|81|243|326|100	506|669	1.24	0.5373314	2	1.14	0.88	1.46	0.99	0.70	1.40
PLCO	23	0.420|0.421	324|476|169|315|465|165	969|945	0.00	0.998845	2	1.00	0.82	1.23	1.00	0.77	1.31
WHI	3	0.407|0.444	858|1133|411|727|1193|462	2402|2382	15.27	0.000483	2	1.24	1.09	1.41	1.33	1.12	1.57
STAGE3	1	0.385|0.416	1947|2338|780|1386|1836|725	5065|3947	18.40	1.01E-04	2	1.10	1.01	1.21	1.31	1.16	1.48
NHS2	4	0.400|0.442	433|545|197|190|259|124	1175|573	6.57	0.0373648	2	1.08	0.86	1.36	1.43	1.08	1.90
NOR	5	0.380|0.408	184|242|66|180|244|86	492|510	2.36	0.3070984	2	1.03	0.79	1.35	1.33	0.91	1.95
PBCS2	1	0.362|0.398	719|778|240|518|661|231	1737|1410	8.46	0.0145629	2	1.18	1.01	1.37	1.34	1.08	1.65
USRT	5	0.385|0.410	387|443|159|271|371|132	989|774	3.15	0.2069143	2	1.20	0.97	1.47	1.19	0.90	1.57
WHS	1	0.421|0.445	224|330|118|227|301|152	672|680	5.59	0.0612035	2	0.90	0.71	1.15	1.27	0.94	1.72
PBCS 1+2	1	0.368|0.397	910|1006|321|761|987|331	2237|2079	7.85	0.0197716	2	1.17	1.03	1.34	1.23	1.03	1.48

Locus	Alleles	Chr	Location	Neighborhood
rs999737	C|T	14q24.1		68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.239|0.218	6217|3775|655|5890|3353|435	10647|9678	32.10	1.07E-07	2	0.94	0.88	0.99	0.70	0.62	0.80
NHS	10	0.244|0.213	660|406|76|703|394|47	1142|1144	8.37	0.0152053	2	0.91	0.77	1.08	0.58	0.40	0.85
STAGE1-2	3	0.238|0.213	3263|1972|341|3506|1947|237	5576|5690	26.44	1.81E-06	2	0.92	0.85	0.99	0.65	0.54	0.77
STAGE2	6	0.236|0.213	2603|1566|265|2803|1553|190	4434|4546	18.42	9.99E-05	2	0.92	0.84	1.01	0.67	0.55	0.81
CPSII	21	0.235|0.222	319|193|31|325|182|28	543|535	0.47	0.7898729	2	0.93	0.72	1.19	0.89	0.52	1.51
PBCS1	9	0.242|0.213	291|185|30|409|234|25	506|668	3.79	0.1500041	2	0.90	0.70	1.15	0.59	0.34	1.03
PLCO	3	0.238|0.215	576|334|65|576|336|36	975|948	7.96	0.0187308	2	1.01	0.83	1.22	0.55	0.36	0.85
WHI	10	0.235|0.209	1417|854|139|1493|801|101	2410|2395	9.65	0.0080181	2	0.89	0.79	1.00	0.69	0.53	0.90
STAGE3	5	0.240|0.226	2955|1806|314|2386|1408|197	5075|3991	7.18	0.0275469	2	0.97	0.88	1.05	0.78	0.65	0.94
NHS2	16	0.232|0.226	698|374|81|350|195|33	1153|578	1.21	0.546058	2	1.04	0.84	1.29	0.81	0.53	1.24
NOR	3	0.257|0.215	271|195|30|319|171|25	496|515	5.58	0.0614735	2	0.75	0.57	0.97	0.71	0.41	1.23
PBCS2	11	0.236|0.226	1016|637|94|850|514|66	1747|1430	1.19	0.550635	2	0.96	0.83	1.12	0.84	0.60	1.16
USRT	15	0.243|0.232	572|357|62|459|275|43	991|777	0.57	0.7527645	2	0.96	0.79	1.17	0.86	0.57	1.30
WHS	4	0.245|0.226	398|243|47|408|253|30	688|691	4.07	0.1305223	2	1.02	0.81	1.27	0.62	0.39	1.00

PBCS 1+2 6 0.237|0.222 1306|819|124|1257|746|92 2249|2095 3.63 0.1630236 2 0.95 0.83 1.07 0.77 0.58 1.02

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.221|0.241	6483|3665|524/5603|3498|581	10672|9682	22.81	1.11E-05	2	1.10	1.04	1.17	1.28	1.13	1.45
NHS	6	0.215|0.249	693|402|44/652|415|78	1139|1145	10.92	0.0042612	2	1.10	0.92	1.31	1.88	1.28	2.77
STAGE1-2	1	0.216|0.243	3402|1924|241/3288|2028|370	5567|5686	30.66	2.20E-07	2	1.09	1.01	1.18	1.59	1.34	1.88
STAGE2	3	0.216|0.242	2709|1522|197/2636|1613|292	4428|4541	20.67	3.24E-05	2	1.09	1.00	1.19	1.52	1.26	1.84
CPSII	18	0.225|0.236	325|192|26/315|186|33	543|534	1.01	0.6044544	2	1.00	0.78	1.29	1.31	0.77	2.24
PBCS1	3	0.217|0.263	308|173|23/362|256|47	504|665	6.59	0.0370599	2	1.26	0.98	1.61	1.74	1.03	2.93
PLCO	15	0.223|0.238	577|359|37/546|353|49	973|948	2.26	0.3237197	2	1.04	0.86	1.25	1.40	0.90	2.18
WHI	5	0.212|0.239	1499|798|111/1413|818|163	2408|2394	12.62	0.0018223	2	1.09	0.96	1.23	1.56	1.21	2.00
STAGE3	4	0.226|0.237	3081|1743|283/2314|1473|210	5107|3997	7.29	0.0260834	2	1.13	1.03	1.23	0.99	0.82	1.19
NHS2	8	0.227|0.235	712|397|69/338|219|28	1178|585	2.84	0.2415872	2	1.16	0.94	1.43	0.85	0.54	1.35
NOR	17	0.246|0.241	284|178|33/293|191|28	495|512	0.72	0.6971789	2	1.04	0.80	1.35	0.82	0.48	1.40
PBCS2	4	0.223|0.231	1070|586|98/847|518|74	1754|1439	2.43	0.2972865	2	1.12	0.96	1.30	0.95	0.70	1.31
USRT	3	0.216|0.253	604|350|39/430|293|49	993|772	7.92	0.0190445	2	1.18	0.96	1.43	1.76	1.14	2.74
WHS	5	0.233|0.228	411|232|44/406|252|31	687|689	3.11	0.2114558	2	1.10	0.88	1.38	0.71	0.44	1.15
PBCS 1+2	3	0.221|0.241	1378|757|121/1210|771|122	2256|2103	5.67	0.0585769	2	1.16	1.02	1.32	1.15	0.88	1.49

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.035|0.028	9926|718|10/9156|508|14	10654|9678	20.91	2.89E-05	2	0.77	0.68	0.86	1.52	0.67	3.42
NHS	22	0.034|0.024	1064|78|0/1089|56|0	1142|1145									
STAGE1-2	16	0.034|0.025	5198|376|2/5412|277|3	5576|5692	18.33	1.05E-04	2	0.71	0.60	0.83	1.44	0.24	8.63
STAGE2	15	0.034|0.025	4134|298|2/4323|221|3	4434|4547	14.43	0.0007361	2	0.71	0.59	0.85	1.43	0.24	8.59
CPSII	24	0.030|0.017	510|33|0/518|16|1	543|535									
PBCS1	22	0.033|0.022	473|33|0/640|29|0	506|669									
PLCO	17	0.036|0.028	906|68|1/895|52|1	975|948	1.82	0.4021657	2	0.77	0.53	1.12	1.01	0.06	16.21
WHI	17	0.034|0.026	2245|164|1/2270|124|1	2410|2395	5.65	0.0593914	2	0.75	0.59	0.95	0.99	0.06	15.82
STAGE3	7	0.035|0.032	4728|342|8/3745|231|11	5078|3987	4.78	0.0914567	2	0.85	0.72	1.01	1.74	0.70	4.32
NHS2	1	0.040|0.025	1074|82|5/558|21|4	1161|583	8.79	0.0123531	2	0.49	0.30	0.80	1.54	0.41	5.76
NOR	24	0.036|0.043	460|36|0/472|44|0	496|516									
PBCS2	13	0.032|0.030	1648|112|1/1358|83|2	1761|1443	1.07	0.5849969	2	0.90	0.67	1.21	2.43	0.22	26.79
USRT	24	0.037|0.035	920|74|0/723|54|0	994|777									
WHS	9	0.032|0.029	626|38|2/634|29|5	666|668	2.54	0.280485	2	0.75	0.46	1.24	2.47	0.48	12.77
PBCS 1+2	9	0.032|0.027	2121|145|1/1997|112|2	2267|2111	2.75	0.2529247	2	0.82	0.64	1.06	2.12	0.19	23.44

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.228|0.246	6374|3763|552/5488|3630|568	10689|9686	19.47	5.91E-05	2	1.12	1.06	1.19	1.20	1.06	1.35
NHS	4	0.220|0.263	690|402|50/617|454|74	1142|1145	11.88	0.0026355	2	1.26	1.06	1.50	1.66	1.14	2.41
STAGE1-2	17	0.227|0.250	3315|1996|265/3183|2170|339	5576|5692	17.82	1.35E-04	2	1.13	1.05	1.22	1.33	1.13	1.58
STAGE2	20	0.228|0.247	2625|1594|215/2566|1716|265	4434|4547	8.96	0.0113605	2	1.10	1.01	1.20	1.26	1.04	1.52
CPSII	9	0.215|0.236	326|200|17/313|192|30	543|535	3.96	0.1377703	2	1.00	0.78	1.29	1.84	0.99	3.40
PBCS1	20	0.226|0.238	299|185|22/387|245|37	506|669	0.88	0.6442656	2	1.02	0.80	1.31	1.30	0.75	2.25
PLCO	5	0.236|0.258	578|334|63/516|375|57	975|948	5.81	0.054839	2	1.26	1.04	1.52	1.01	0.69	1.48
WHI	20	0.228|0.248	1422|875|113/1350|904|141	2410|2395	5.38	0.0677891	2	1.09	0.97	1.23	1.31	1.02	1.70
STAGE3	8	0.229|0.240	3059|1767|287/2305|1463|230	5113|3998	4.50	0.1055262	2	1.10	1.01	1.20	1.06	0.89	1.28
NHS2	13	0.225|0.235	724|388|73/341|209|32	1185|582	1.85	0.3957367	2	1.14	0.93	1.41	0.93	0.60	1.44
NOR	10	0.232|0.253	292|179|26/284|200|30	497|514	1.27	0.5286338	2	1.15	0.89	1.49	1.19	0.68	2.06

PBCS2	17	0.226|0.231	1063|591|102|854|504|81	1756|1439	0.66	0.7178971	2	1.06	0.91	1.23	0.99	0.73	1.34
USRT	8	0.240|0.246	567|373|51|445|276|52	991|773	2.31	0.3151945	2	0.94	0.77	1.15	1.30	0.87	1.95
WHS	3	0.224|0.249	413|236|35|381|274|35	684|690	4.09	0.1290622	2	1.26	1.01	1.57	1.08	0.66	1.77
PBCS 1+2	18	0.226|0.233	1362|776|124|1241|746|117	2262|2104	0.70	0.7038391	2	1.06	0.93	1.20	1.04	0.80	1.35

Locus rs4415084 Alleles C|T Chr 5p12 Location Neighborhood 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.407|0.429	3779|5060|1804|3184|4660|1808	10643|9652	18.96	7.62E-05	2	1.09	1.03	1.16	1.19	1.10	1.29
NHS	2	0.392|0.435	429|513|186|350|583|203	1128|1136	13.20	0.0013623	2	1.39	1.16	1.68	1.34	1.05	1.71
STAGE1-2	21	0.404|0.426	1986|2660|914|1884|2752|1046	5560|5682	11.82	0.0027128	2	1.09	1.00	1.18	1.21	1.08	1.35
STAGE2	22	0.406|0.424	1557|2147|728|1534|2169|843	4432|4546	7.26	0.026581	2	1.03	0.93	1.12	1.18	1.04	1.33
CPSII	17	0.427|0.399	178|265|99|193|257|85	542|535	1.75	0.4170978	2	0.89	0.69	1.17	0.79	0.56	1.13
PBCS1	4	0.410|0.460	174|249|83|193|337|139	506|669	5.82	0.0543404	2	1.22	0.94	1.59	1.51	1.07	2.12
PLCO	19	0.408|0.422	339|475|160|321|454|173	974|948	1.12	0.5707497	2	1.01	0.83	1.23	1.14	0.88	1.49
WHI	16	0.400|0.420	866|1158|386|827|1121|446	2410|2394	5.77	0.0557765	2	1.01	0.89	1.15	1.21	1.02	1.43
STAGE3	3	0.411|0.433	1793|2403|891|1302|1913|765	5087|3980	8.08	0.0176291	2	1.10	1.00	1.20	1.18	1.05	1.33
NHS2	6	0.399|0.434	436|540|199|188|281|111	1175|580	3.99	0.1363078	2	1.21	0.96	1.51	1.29	0.97	1.73
NOR	11	0.438|0.413	156|242|95|177|248|88	493|513	1.27	0.5303489	2	0.90	0.68	1.19	0.82	0.57	1.17
PBCS2	9	0.424|0.435	593|833|328|457|711|271	1754|1439	1.62	0.445049	2	1.11	0.95	1.30	1.07	0.88	1.31
USRT	2	0.388|0.445	374|467|151|252|358|166	992|776	12.69	0.0017576	2	1.14	0.92	1.40	1.63	1.24	2.14
WHS	18	0.414|0.426	234|321|118|228|315|129	673|672	0.62	0.7321055	2	1.01	0.79	1.28	1.12	0.82	1.53
PBCS 1+2	4	0.421|0.443	767|1079|410|648|1043|407	2256|2098	4.90	0.0861896	2	1.14	1.00	1.31	1.18	0.99	1.40

Locus rs7121523 Alleles G|A Chr 11p15.4 Location Neighborhood 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.159|0.163	7513|2919|235|6829|2540|303	10667|9672	18.90	7.88E-05	2	0.96	0.90	1.02	1.42	1.19	1.69
NHS	11	0.158|0.169	808|306|28|810|283|52	1142|1145	8.10	0.0174513	2	0.92	0.76	1.11	1.85	1.16	2.96
STAGE1-2	2	0.156|0.164	3941|1525|106|4028|1461|200	5572|5689	29.98	3.08E-07	2	0.94	0.86	1.02	1.85	1.45	2.35
STAGE2	2	0.155|0.162	3133|1219|78|3218|1178|148	4430|4544	22.08	1.61E-05	2	0.94	0.86	1.03	1.85	1.40	2.44
CPSII	13	0.173|0.177	368|161|13|366|147|21	542|534	2.46	0.2915886	2	0.92	0.70	1.20	1.62	0.80	3.29
PBCS1	10	0.138|0.156	373|123|8|481|165|22	504|668	3.43	0.1795265	2	1.04	0.79	1.36	2.13	0.94	4.84
PLCO	13	0.156|0.166	688|270|17|661|259|28	975|948	3.08	0.214431	2	1.00	0.82	1.22	1.71	0.93	3.16
WHI	4	0.155|0.159	1704|665|40|1710|607|77	2409|2394	14.31	0.0007812	2	0.91	0.80	1.03	1.92	1.30	2.83
STAGE3	22	0.162|0.161	3572|1394|128|2801|1080|103	5094|3984	0.11	0.9458492	2	0.99	0.90	1.08	1.03	0.79	1.34
NHS2	11	0.167|0.160	811|332|30|418|149|19	1173|586	2.11	0.3483123	2	0.87	0.69	1.09	1.23	0.68	2.21
NOR	21	0.172|0.177	342|136|17|347|147|17	495|511	0.21	0.9005829	2	1.07	0.81	1.41	0.99	0.50	1.96
PBCS2	24	0.148|0.151	1266|440|38|1023|369|31	1744|1423	0.20	0.9028441	2	1.04	0.88	1.22	1.01	0.62	1.63
USRT	20	0.177|0.172	668|301|25|527|223|21	994|771	0.43	0.8077199	2	0.94	0.76	1.16	1.06	0.59	1.92
WHS	22	0.161|0.160	485|185|18|486|192|15	688|693	0.39	0.8246333	2	1.04	0.82	1.31	0.83	0.41	1.67
PBCS 1+2	14	0.146|0.153	1639|563|47|1504|533|53	2249|2090	1.15	0.5613389	2	1.03	0.90	1.18	1.23	0.82	1.83

Locus rs17570439 Alleles T|C Chr 1p34.2 Location Neighborhood 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.209|0.226	6650|3528|455|5797|3380|500	10633|9677	18.79	8.31E-05	2	1.10	1.04	1.17	1.26	1.11	1.44
NHS	5	0.204|0.244	719|381|42|654|424|67	1142|1145	11.10	0.0038794	2	1.22	1.03	1.46	1.75	1.18	2.62
STAGE1-2	12	0.207|0.230	3473|1895|208|3380|2006|303	5576|5689	20.95	2.82E-05	2	1.09	1.01	1.18	1.50	1.25	1.80
STAGE2	17	0.208|0.226	2754|1514|166|2726|1582|236	4434|4544	12.48	0.0019501	2	1.06	0.97	1.15	1.44	1.17	1.76
CPSII	6	0.196|0.218	343|187|13|329|179|27	543|535	5.31	0.0703884	2	1.00	0.77	1.29	2.17	1.10	4.27
PBCS1	15	0.210|0.222	310|179|17|406|228|34	506|668	2.12	0.3458451	2	0.97	0.76	1.24	1.53	0.84	2.78
PLCO	14	0.220|0.235	599|323|53|552|346|50	975|948	2.42	0.2983922	2	1.16	0.96	1.41	1.02	0.68	1.53
WHI	9	0.206|0.225	1502|825|83|1439|829|125	2410|2393	9.78	0.0075217	2	1.05	0.93	1.18	1.57	1.18	2.09

STAGE3	6	0.210|0.222	3177|1634|247|2416|1374|197	5058|3987	4.90	0.0862191	2	1.11	1.01	1.21	1.05	0.86	1.27
NHS2	5	0.206|0.227	730|346|61|342|202|29	1137|573	4.07	0.1305538	2	1.25	1.00	1.55	1.01	0.64	1.61
NOR	9	0.210|0.233	310|164|22|301|185|27	496|513	1.62	0.4447643	2	1.16	0.89	1.51	1.26	0.70	2.27
PBCS2	16	0.208|0.216	1111|557|86|891|478|72	1754|1441	0.79	0.6734623	2	1.07	0.92	1.24	1.04	0.75	1.45
USRT	12	0.218|0.221	607|344|45|476|258|43	996|777	1.14	0.5644929	2	0.96	0.78	1.17	1.22	0.79	1.88
WHS	8	0.214|0.222	419|223|33|406|251|26	675|683	2.64	0.2668244	2	1.16	0.93	1.46	0.81	0.48	1.38
PBCS 1+2	15	0.208|0.218	1421|735|103|1298|706|106	2259|2110	1.11	0.5738796	2	1.05	0.93	1.19	1.13	0.85	1.49

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.095|0.106	8763|1844|91|7754|1837|115	10698|9706	16.26	2.95E-04	2	1.13	1.05	1.21	1.43	1.08	1.88
NHS	7	0.086|0.110	951|186|5|912|215|18	1142|1145	10.26	0.0059237	2	1.21	0.97	1.50	3.75	1.39	10.15
STAGE1-2	14	0.090|0.108	4627|897|52|4535|1085|70	5576|6690	20.26	3.99E-05	2	1.23	1.12	1.36	1.37	0.96	1.97
STAGE2	12	0.091|0.107	3676|711|47|3623|870|52	4434|4545	15.26	0.0004861	2	1.24	1.11	1.38	1.12	0.75	1.67
CPSII	16	0.099|0.107	444|90|9|426|103|6	543|535	1.79	0.4088547	2	1.19	0.87	1.63	0.69	0.25	1.97
PBCS1	7	0.094|0.113	417|83|6|523|141|5	506|669	4.54	0.1034486	2	1.35	1.00	1.83	0.66	0.20	2.19
PLCO	6	0.077|0.094	832|135|8|775|167|6	975|948	5.32	0.0699421	2	1.33	1.04	1.70	0.81	0.28	2.33
WHI	13	0.094|0.111	1983|403|24|1899|459|35	2410|2393	7.45	0.024156	2	1.19	1.03	1.38	1.52	0.90	2.57
STAGE3	9	0.100|0.105	4136|948|39|3221|752|45	5123|4018	3.30	0.1922955	2	1.02	0.92	1.13	1.48	0.96	2.28
NHS2	2	0.103|0.108	947|218|12|474|96|15	1177|585	7.08	0.029057	2	0.88	0.68	1.15	2.50	1.16	5.38
NOR	23	0.081|0.090	414|80|0|426|82|5	494|513									
PBCS2	19	0.104|0.108	1412|338|15|1152|282|16	1765|1450	0.60	0.7415683	2	1.02	0.86	1.22	1.31	0.64	2.66
USRT	23	0.105|0.106	799|184|12|622|146|9	995|777	0.03	0.9838525	2	1.02	0.80	1.30	0.96	0.40	2.30
WHS	24	0.092|0.105	564|128|0|547|146|0	692|693									
PBCS 1+2	11	0.102|0.110	1829|420|21|1673|423|21	2270|2117	1.63	0.4435626	2	1.10	0.95	1.28	1.09	0.59	2.01

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.426|0.414	3559|5120|1981|3270|4814|1604	10660|9688	14.90	0.0005802	2	1.02	0.96	1.09	0.88	0.81	0.96
NHS	1	0.425|0.431	405|502|233|349|605|191	1140|1145	17.89	1.30E-04	2	1.40	1.16	1.68	0.95	0.75	1.21
STAGE1-2	8	0.439|0.420	1803|2653|1118|1861|2884|947	5574|5692	23.48	7.96E-06	2	1.05	0.97	1.14	0.82	0.74	0.91
STAGE2	10	0.442|0.417	1398|2151|885|1512|2279|756	4434|4547	16.89	2.15E-04	2	0.98	0.89	1.08	0.79	0.70	0.89
CPSII	2	0.475|0.415	158|254|131|184|258|93	543|535	8.40	0.0150303	2	0.87	0.66	1.15	0.61	0.43	0.86
PBCS1	1	0.415|0.369	186|220|100|264|316|89	506|669	8.91	0.0115979	2	1.01	0.78	1.31	0.63	0.45	0.88
PLCO	22	0.419|0.411	324|485|166|320|476|152	975|948	0.35	0.8409453	2	0.99	0.81	1.21	0.93	0.71	1.21
WHI	19	0.450|0.433	730|1192|488|744|1229|422	2410|2395	5.44	0.0659248	2	1.01	0.89	1.15	0.85	0.72	1.00
STAGE3	18	0.412|0.406	1756|2467|864|1410|1932|657	5087|3999	0.78	0.6772194	2	0.98	0.89	1.07	0.95	0.84	1.07
NHS2	22	0.418|0.427	394|568|202|192|283|107	1164|582	0.32	0.8518524	2	1.02	0.82	1.28	1.09	0.81	1.45
NOR	20	0.390|0.400	186|231|77|187|245|84	494|516	0.24	0.8870538	2	1.05	0.80	1.38	1.09	0.75	1.57
PBCS2	21	0.400|0.394	625|849|274|528|682|223	1748|1433	0.42	0.8101147	2	0.95	0.82	1.11	0.96	0.78	1.19
USRT	9	0.439|0.415	313|490|192|268|373|136	995|777	2.12	0.3462575	2	0.89	0.72	1.10	0.83	0.63	1.09
WHS	14	0.413|0.407	238|329|119|235|349|107	686|691	1.23	0.5411745	2	1.07	0.85	1.36	0.91	0.66	1.25
PBCS 1+2	8	0.403|0.386	811|1069|373|791|996|312	2253|2099	2.82	0.2445694	2	0.96	0.84	1.09	0.86	0.72	1.03

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.370|0.364	4275|4832|1520|3852|4575|1220	10627|9647	14.55	0.0006935	2	1.05	0.99	1.12	0.89	0.82	0.97
NHS	20	0.372|0.363	452|529|160|460|538|146	1141|1144	0.78	0.676152	2	1.00	0.84	1.19	0.90	0.69	1.16
STAGE1-2	5	0.374|0.358	2234|2499|830|2289|2719|675	5563|5683	24.63	4.48E-06	2	1.06	0.98	1.15	0.79	0.71	0.89
STAGE2	1	0.374|0.357	1782|1970|670|1829|2181|529	4422|4539	26.40	1.86E-06	2	1.08	0.99	1.18	0.77	0.67	0.88
CPSII	4	0.371|0.333	217|240|79|228|251|51	536|530	6.52	0.0384739	2	1.00	0.77	1.29	0.61	0.41	0.91

PBCS1	2	0.387|0.374	195|230|81|242|351|74	506|667	8.64	0.0133309	2	1.23	0.96	1.58	0.74	0.51	1.06
PLCO	2	0.376|0.350	398|416|157|393|445|109	971|947	9.37	0.0092273	2	1.08	0.89	1.31	0.70	0.53	0.93
WHI	14	0.372|0.360	972|1084|353|966|1134|295	2409|2395	6.30	0.0429308	2	1.05	0.93	1.19	0.84	0.70	1.01
STAGE3	19	0.367|0.372	2041|2337|690|1563|1858|545	5068|3966	0.70	0.7046814	2	1.04	0.95	1.14	1.03	0.91	1.17
NHS2	3	0.344|0.386	510|503|148|219|279|86	1161|584	6.69	0.0352064	2	1.29	1.04	1.60	1.35	0.99	1.84
NOR	8	0.366|0.372	207|214|74|201|245|69	495|515	1.96	0.375035	2	1.18	0.90	1.54	0.96	0.66	1.41
PBCS2	22	0.380|0.382	656|853|236|542|686|203	1745|1431	0.41	0.8145846	2	0.97	0.84	1.13	1.04	0.84	1.30
USRT	16	0.359|0.365	410|454|130|309|368|99	994|776	0.54	0.7632601	2	1.08	0.88	1.32	1.01	0.75	1.36
WHS	2	0.384|0.345	258|313|102|292|280|88	673|660	4.84	0.0887661	2	0.79	0.63	1.00	0.76	0.55	1.06
PBCS 1+2	16	0.381|0.379	851|1079|317|784|1035|277	2247|2096	1.11	0.5751503	2	1.04	0.92	1.18	0.95	0.79	1.14

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.159|0.173	7544|2828|285|6652|2704|318	10657|9674	13.14	0.0014041	2	1.08	1.02	1.15	1.27	1.07	1.49
NHS	12	0.151|0.178	814|311|17|769|342|33	1142|1144	7.87	0.0195541	2	1.16	0.97	1.40	2.05	1.14	3.72
STAGE1-2	4	0.151|0.174	4007|1455|114|3905|1597|189	5576|5691	25.31	3.18E-06	2	1.13	1.04	1.22	1.70	1.34	2.16
STAGE2	7	0.151|0.172	3193|1144|97|3136|1255|156	4434|4547	17.99	1.24E-04	2	1.12	1.02	1.23	1.64	1.26	2.12
CPSII	19	0.159|0.164	383|147|13|377|140|18	543|535	0.97	0.6171656	2	0.97	0.74	1.27	1.41	0.68	2.91
PBCS1	5	0.191|0.227	335|149|22|400|234|35	506|669	5.06	0.0795413	2	1.32	1.02	1.69	1.33	0.77	2.32
PLCO	11	0.144|0.166	714|241|20|658|265|25	975|948	3.60	0.1651977	2	1.19	0.97	1.46	1.36	0.75	2.47
WHI	6	0.143|0.161	1761|607|42|1701|616|78	2410|2395	11.86	0.0026593	2	1.05	0.92	1.20	1.92	1.31	2.81
STAGE3	17	0.169|0.172	3537|1374|171|2747|1110|129	5082|3986	0.80	0.6710681	2	1.04	0.95	1.14	0.97	0.77	1.23
NHS2	18	0.170|0.156	810|306|44|411|145|17	1160|573	1.11	0.57395	2	0.93	0.74	1.18	0.76	0.43	1.35
NOR	18	0.142|0.135	364|125|8|382|127|6	497|515	0.42	0.8122569	2	0.97	0.73	1.29	0.71	0.25	2.08
PBCS2	20	0.190|0.192	1158|519|73|941|441|55	1750|1437	0.57	0.7527475	2	1.05	0.90	1.22	0.93	0.65	1.33
USRT	4	0.155|0.177	713|256|26|530|216|29	995|775	3.20	0.071861	2	1.14	0.92	1.40	1.50	0.87	2.58
WHS	17	0.153|0.164	492|168|20|483|181|22	680|686	0.64	0.7275251	2	1.10	0.86	1.40	1.12	0.60	2.08
PBCS 1+2	7	0.190|0.203	1493|667|95|1341|672|90	2255|2103	3.01	0.2221966	2	1.12	0.98	1.28	1.05	0.78	1.42

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.223|0.212	6394|3731|508|6029|3163|462	10633|9654	12.49	0.0019418	2	0.90	0.85	0.95	0.96	0.85	1.10
NHS	15	0.220|0.189	695|392|55|754|349|42	1142|1145	6.64	0.0362258	2	0.82	0.69	0.98	0.70	0.47	1.07
STAGE1-2	13	0.220|0.201	3356|1980|239|3650|1790|248	5575|5688	20.95	2.83E-05	2	0.83	0.77	0.90	0.95	0.79	1.15
STAGE2	9	0.221|0.204	2661|1588|184|2896|1441|206	4433|4543	16.97	2.07E-04	2	0.83	0.76	0.91	1.03	0.84	1.26
CPSII	3	0.217|0.205	323|203|16|341|165|27	542|533	7.15	0.0280018	2	0.77	0.60	0.99	1.60	0.85	3.02
PBCS1	13	0.244|0.239	284|197|25|391|235|42	506|668	2.31	0.3155159	2	0.87	0.68	1.11	1.22	0.73	2.05
PLCO	7	0.229|0.199	577|350|48|606|307|35	975|948	5.18	0.074897	2	0.84	0.69	1.01	0.69	0.44	1.09
WHI	11	0.213|0.196	1477|838|95|1558|734|102	2410|2394	9.24	0.009864	2	0.83	0.74	0.94	1.02	0.76	1.36
STAGE3	24	0.226|0.227	3039|1753|269|2380|1375|213	5061|3968	0.01	0.9933009	2	1.00	0.92	1.09	1.01	0.84	1.22
NHS2	14	0.205|0.202	734|358|56|359|188|21	1148|568	1.65	0.438149	2	1.07	0.86	1.33	0.77	0.46	1.29
NOR	15	0.221|0.219	297|179|20|314|175|25	496|514	0.75	0.686192	2	0.92	0.71	1.20	1.18	0.64	2.17
PBCS2	23	0.252|0.258	980|644|117|793|540|99	1741|1432	0.27	0.8741338	2	1.04	0.89	1.20	1.05	0.79	1.39
USRT	13	0.206|0.205	626|327|41|495|242|38	994|775	1.02	0.5992779	2	0.94	0.76	1.15	1.17	0.74	1.85
WHS	15	0.231|0.214	402|245|35|419|230|30	682|679	1.20	0.5477966	2	0.90	0.72	1.13	0.82	0.50	1.36
PBCS 1+2	21	0.250|0.252	1263|839|142|1183|773|142	2244|2098	0.41	0.8146656	2	0.98	0.87	1.12	1.07	0.84	1.37

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.220|0.214	6450|3688|498|6023|3139|502	10636|9664	12.27	0.0021665	2	0.91	0.86	0.97	1.08	0.95	1.23
NHS	16	0.218|0.212	692|402|48|725|355|65	1142|1145	6.24	0.0441523	2	0.84	0.71	1.01	1.29	0.88	1.90

STAGE1-2	9	0.218|0.214	3372|1979|225/3566|1821|305	5576|5692	22.88	1.08E-05	2	0.87	0.80	0.94	1.28	1.07	1.53
STAGE2	11	0.218|0.214	2680|1577|177/2841|1466|240	4434|4547	16.84	2.20E-04	2	0.88	0.80	0.96	1.28	1.05	1.56
CPSII	11	0.215|0.200	328|197|18/343|170|22	543|535	2.66	0.2641503	2	0.83	0.64	1.06	1.17	0.62	2.22
PBCS1	6	0.242|0.247	282|203|21/383|241|45	506|669	4.80	0.0907257	2	0.87	0.69	1.11	1.58	0.92	2.71
PLCO	18	0.214|0.203	603|326|46/610|291|47	975|948	1.66	0.4365307	2	0.88	0.73	1.07	1.01	0.66	1.54
WHI	8	0.215|0.212	1467|851|92/1505|764|126	2410|2395	10.43	0.0054383	2	0.88	0.78	0.99	1.34	1.01	1.76
STAGE3	13	0.223|0.216	3078|1710|273/2458|1320|197	5061|3975	1.42	0.4910468	2	0.97	0.88	1.06	0.90	0.75	1.09
NHS2	17	0.211|0.207	723|368|59/356|190|23	1150|569	1.18	0.5549247	2	1.05	0.84	1.30	0.79	0.48	1.30
NOR	4	0.243|0.205	281|187|27/328|161|25	495|514	5.29	0.0709768	2	0.74	0.57	0.96	0.79	0.45	1.40
PBCS2	18	0.234|0.240	1042|597|112/836|508|91	1751|1435	0.60	0.7404818	2	1.06	0.91	1.23	1.01	0.76	1.36
USRT	11	0.212|0.195	612|339|41/501|250|27	992|778	1.55	0.460736	2	0.90	0.74	1.10	0.80	0.49	1.33
WHS	19	0.213|0.201	420|219|34/437|211|31	673|679	0.60	0.7415942	2	0.93	0.73	1.17	0.88	0.53	1.45
PBCS 1+2	19	0.236|0.243	1324|799|133/1218|747|136	2256|2101	0.69	0.7084379	2	1.02	0.90	1.15	1.11	0.86	1.43

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	15	0.449|0.432	3262|5237|2175/3133|4725|1825	10674|9683	11.33	0.0034729	2	0.94	0.88	1.00	0.87	0.81	0.95
NHS	17	0.470|0.439	312|586|244/357|569|218	1142|1144	4.74	0.0935471	2	0.85	0.70	1.03	0.78	0.62	0.99
STAGE1-2	19	0.456|0.430	1656|2757|1163/1852|2785|1053	5576|5690	15.40	0.0004527	2	0.90	0.83	0.98	0.81	0.73	0.90
STAGE2	18	0.452|0.427	1344|2171|919/1495|2216|835	4434|4546	11.12	0.0038476	2	0.92	0.83	1.01	0.82	0.73	0.92
CPSII	12	0.471|0.436	152|271|120/172|259|104	543|535	2.59	0.273912	2	0.84	0.64	1.11	0.77	0.54	1.08
PBCS1	8	0.483|0.446	138|247|121/200|340|128	506|668	4.03	0.1335787	2	0.95	0.72	1.25	0.73	0.52	1.02
PLCO	10	0.449|0.419	298|478|199/319|464|165	975|948	3.72	0.1556509	2	0.91	0.74	1.11	0.77	0.60	1.00
WHI	23	0.443|0.424	756|1175|479/804|1153|438	2410|2395	3.47	0.1762956	2	0.92	0.81	1.05	0.86	0.73	1.01
STAGE3	20	0.442|0.436	1606|2484|1013/1282|1942|774	5103|3998	0.53	0.7671647	2	0.98	0.89	1.08	0.96	0.85	1.08
NHS2	20	0.441|0.435	379|559|240/186|286|110	1178|582	0.66	0.7182904	2	1.04	0.83	1.31	0.93	0.70	1.24
NOR	19	0.391|0.401	184|235|76/188|240|86	495|514	0.36	0.837247	2	1.00	0.76	1.31	1.11	0.77	1.60
PBCS2	8	0.457|0.441	518|863|368/456|695|287	1749|1438	1.75	0.4174939	2	0.91	0.78	1.07	0.89	0.73	1.08
USRT	19	0.454|0.444	295|489|205/243|378|156	989|777	0.44	0.8005663	2	0.94	0.76	1.17	0.92	0.71	1.21
WHS	12	0.423|0.446	230|338|124/209|343|135	692|687	1.49	0.474654	2	1.12	0.88	1.42	1.20	0.88	1.63
PBCS 1+2	5	0.463|0.442	656|1106|488/655|1033|413	2250|2101	3.64	0.1622741	2	0.94	0.82	1.07	0.85	0.72	1.00

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	16	0.259|0.279	3047|2125|374/2387|1867|353	5546|4607	10.69	0.0047697	2	1.12	1.03	1.22	1.20	1.03	1.41
STAGE3	2	0.259|0.277	2791|1931|347/2070|1609|297	5069|3976	8.15	0.016966	2	1.12	1.03	1.23	1.15	0.98	1.36
NHS2	12	0.255|0.277	637|430|76/301|228|45	1143|574	1.97	0.3741036	2	1.12	0.91	1.39	1.25	0.85	1.86
NOR	12	0.303|0.282	239|213|44/265|210|40	496|515	1.20	0.5498078	2	0.89	0.69	1.15	0.82	0.52	1.30
PBCS2	2	0.259|0.276	969|667|121/737|605|94	1757|1436	5.75	0.0564235	2	1.19	1.03	1.38	1.02	0.77	1.36
USRT	1	0.236|0.290	575|373|49/395|307|71	997|773	15.75	0.000381	2	1.20	0.98	1.46	2.11	1.43	3.10
WHS	16	0.268|0.260	371|248|57/372|259|47	676|678	1.20	0.5491983	2	1.04	0.83	1.31	0.82	0.54	1.24
PBCS 1+2	2	0.259|0.281	1225|861|148/1054|863|150	2234|2067	6.37	0.0413437	2	1.16	1.03	1.32	1.18	0.93	1.50

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% I	hom OR 95% CI_u
STAGE1-3	17	0.355|0.369	4448|4846|1351/3883|4411|1360	10645|9654	10.43	0.0054263	2	1.04	0.98	1.11	1.15	1.06	1.26
NHS	13	0.356|0.381	459|552|130/447|523|175	1141|1145	7.57	0.0226676	2	0.97	0.82	1.16	1.38	1.06	1.80
STAGE1-2	6	0.348|0.374	2351|2569|655/2284|2560|846	5575|5690	24.12	5.79E-06	2	1.03	0.95	1.11	1.33	1.18	1.49
STAGE2	8	0.346|0.372	1892|2017|525/1837|2037|671	4434|4545	17.36	1.70E-04	2	1.04	0.95	1.14	1.32	1.15	1.50
CPSII	10	0.350|0.339	220|266|57/238|231|66	543|535	3.77	0.1517086	2	0.80	0.62	1.04	1.07	0.72	1.60
PBCS1	17	0.345|0.356	216|231|59/287|287|94	506|668	1.76	0.414439	2	0.94	0.73	1.20	1.20	0.83	1.74

PLCO	4	0.333|0.374	437|427|111|378|430|140	975|948	7.25	0.0265879	2	1.16	0.96	1.41	1.46	1.10	1.94
WHI	7	0.350|0.382	1019|1093|298|934|1089|371	2410|2394	11.62	0.0029986	2	1.09	0.96	1.23	1.36	1.14	1.62
STAGE3	10	0.362|0.363	2098|2281|696|1600|1852|514	5075|3966	2.98	0.2253374	2	1.06	0.97	1.16	0.97	0.85	1.10
NHS2	24	0.367|0.365	482|523|170|238|257|82	1175|577	0.02	0.9887474	2	1.00	0.80	1.23	0.98	0.72	1.33
NOR	14	0.372|0.371	200|212|75|200|232|70	487|502	0.85	0.6550764	2	1.09	0.84	1.43	0.93	0.64	1.37
PBCS2	15	0.349|0.349	744|779|218|599|660|169	1741|1428	0.79	0.6726085	2	1.05	0.91	1.22	0.96	0.77	1.21
USRT	17	0.374|0.366	391|459|141|311|366|102	991|779	0.47	0.7888255	2	1.00	0.82	1.23	0.91	0.68	1.22
WHS	6	0.361|0.382	281|308|92|252|337|91	681|680	2.89	0.2361627	2	1.22	0.97	1.54	1.10	0.79	1.54
PBCS 1+2	24	0.348|0.351	959|1006|277|885|946|263	2242|2094	0.13	0.9392524	2	1.02	0.90	1.16	1.03	0.85	1.25

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.261|0.275	5213|3644|662/4497|3397|649	9519|8543	8.88	0.0118129	2	1.08	1.02	1.15	1.14	1.01	1.28
STAGE1-2	15	0.252|0.281	2473|1688|272/2354|1826|363	4433|4543	20.05	4.43E-05	2	1.14	1.04	1.24	1.40	1.19	1.66
STAGE2	4	0.252|0.281	2473|1688|272/2354|1826|363	4433|4543	20.05	4.43E-05	2	1.14	1.04	1.24	1.40	1.19	1.66
CPSII	14	0.247|0.273	309|198|35/287|202|45	542|534	2.04	0.360106	2	1.10	0.85	1.42	1.38	0.87	2.21
PBCS1	19	0.246|0.265	293|177|36/368|245|54	506|667	0.99	0.6102575	2	1.10	0.86	1.41	1.19	0.76	1.87
PLCO	1	0.230|0.291	569|364|42/481|381|85	975|947	21.92	1.74E-05	2	1.24	1.03	1.49	2.39	1.62	3.53
WHI	21	0.263|0.283	1302|949|159/1218|998|179	2410|2395	5.17	0.0754023	2	1.12	1.00	1.27	1.20	0.96	1.51
STAGE3	15	0.269|0.268	2740|1960|390/2144|1572|286	5090|4002	1.17	0.555987	2	1.03	0.94	1.12	0.94	0.80	1.10
NHS2	9	0.270|0.283	638|417|105/302|231|49	1160|582	2.33	0.3120437	2	1.17	0.95	1.45	0.99	0.68	1.42
NOR	16	0.248|0.264	276|192|27/278|204|34	495|516	0.74	0.6913383	2	1.05	0.82	1.37	1.25	0.73	2.13
PBCS2	10	0.273|0.261	926|696|131/778|567|92	1753|1437	1.56	0.457632	2	0.97	0.84	1.12	0.84	0.63	1.11
USRT	21	0.273|0.267	524|397|73/418|302|56	994|776	0.23	0.8899207	2	0.95	0.78	1.16	0.96	0.66	1.39
WHS	23	0.266|0.274	376|258|54/368|268|55	688|691	0.28	0.8698866	2	1.06	0.85	1.33	1.04	0.70	1.56
PBCS 1+2	22	0.267|0.262	1219|869|167/1145|811|146	2255|2102	0.36	0.837175	2	0.99	0.88	1.13	0.93	0.73	1.18

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.255|0.245	5896|4093|666/5545|3548|599	10655|9692	7.63	0.0220495	2	0.92	0.87	0.98	0.96	0.85	1.07
NHS	18	0.256|0.240	635|430|77/673|395|77	1142|1145	2.58	0.2745981	2	0.87	0.73	1.03	0.94	0.68	1.32
STAGE1-2	10	0.263|0.242	3003|2205|365/3307|2014|370	5573|5691	22.09	1.59E-05	2	0.83	0.77	0.90	0.92	0.79	1.07
STAGE2	5	0.265|0.243	2368|1775|288/2634|1619|293	4431|4546	19.89	4.80E-05	2	0.82	0.75	0.89	0.91	0.77	1.09
CPSII	1	0.266|0.233	286|224|32/323|175|37	542|535	8.58	0.0136866	2	0.69	0.54	0.89	1.02	0.62	1.69
PBCS1	11	0.247|0.226	284|193|28/406|222|40	505|668	3.13	0.2096069	2	0.80	0.63	1.03	1.00	0.60	1.66
PLCO	9	0.263|0.249	526|385|64/546|332|70	975|948	4.18	0.1236109	2	0.83	0.69	1.00	1.05	0.74	1.51
WHI	12	0.270|0.247	1272|973|164/1359|890|146	2409|2395	7.58	0.022606	2	0.86	0.76	0.96	0.83	0.66	1.05
STAGE3	12	0.245|0.249	2893|1888|301/2238|1535|228	5082|4001	1.46	0.4822715	2	1.05	0.96	1.15	0.98	0.82	1.17
NHS2	7	0.264|0.235	630|457|79/344|206|34	1166|584	3.79	0.1506085	2	0.83	0.67	1.02	0.79	0.52	1.20
NOR	2	0.192|0.237	326|153|19/301|185|30	498|516	6.18	0.0455428	2	1.31	1.00	1.71	1.71	0.94	3.10
PBCS2	3	0.245|0.264	993|643|105/769|569|94	1741|1432	3.54	0.1699222	2	1.14	0.99	1.32	1.16	0.86	1.55
USRT	7	0.254|0.240	553|376|64/442|301|37	993|780	2.35	0.3081093	2	1.00	0.82	1.22	0.72	0.47	1.10
WHS	20	0.239|0.247	391|259|34/382|274|33	684|689	0.52	0.7696459	2	1.08	0.87	1.35	0.99	0.60	1.64
PBCS 1+2	20	0.245|0.252	1277|836|133/1175|790|135	2246|2100	0.66	0.720599	2	1.03	0.91	1.16	1.10	0.86	1.42

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.136|0.128	7995|2464|224/7377|2145|166	10683|9688	6.97	0.0307039	2	0.94	0.88	1.01	0.80	0.66	0.98
NHS	9	0.153|0.123	819|296|27/877|252|15	1142|1144	8.94	0.0114292	2	0.80	0.66	0.96	0.52	0.27	0.98
STAGE1-2	20	0.143|0.126	4103|1351|122/4355|1242|94	5576|5691	14.55	0.0006935	2	0.87	0.79	0.95	0.73	0.55	0.95
STAGE2	21	0.140|0.126	3284|1055|95/3478|990|79	4434|4547	7.68	0.0214665	2	0.89	0.80	0.98	0.79	0.58	1.06

CPSII	8	0.140|0.120	398|138|7|417|108|10	543|535	4.57	0.1016837	2	0.75	0.56	1.00	1.36	0.51	3.62
PBCS1	12	0.153|0.129	364|129|13|510|146|13	506|669	2.88	0.2365134	2	0.81	0.62	1.06	0.71	0.33	1.56
PLCO	21	0.132|0.124	738|216|21|732|196|20	975|948	0.64	0.7258641	2	0.91	0.74	1.14	0.96	0.52	1.79
WHI	22	0.141|0.128	1784|572|54|1819|540|36	2410|2395	4.81	0.0900816	2	0.93	0.81	1.06	0.65	0.43	1.00
STAGE3	14	0.129|0.132	3894|1116|102|3022|909|72	5112|4003	1.37	0.5043512	2	1.05	0.95	1.16	0.91	0.67	1.23
NHS2	19	0.127|0.122	907|259|21|453|118|12	1187|583	0.72	0.6983545	2	0.91	0.71	1.17	1.14	0.56	2.35
NOR	1	0.128|0.167	380|103|12|356|148|12	495|516	8.42	0.0148629	2	1.53	1.15	2.05	1.07	0.47	2.41
PBCS2	14	0.124|0.118	1344|368|32|1120|300|20	1744|1440	1.04	0.5947072	2	0.98	0.82	1.16	0.75	0.43	1.32
USRT	22	0.138|0.142	736|239|17|573|191|15	992|779	0.16	0.9208256	2	1.03	0.82	1.28	1.13	0.56	2.29
WHS	11	0.135|0.130	527|147|20|520|152|13	694|685	1.56	0.4591885	2	1.05	0.81	1.36	0.66	0.32	1.34
PBCS 1+2	10	0.130|0.120	1706|494|45|1630|440|33	2245|2103	2.06	0.3562417	2	0.93	0.81	1.08	0.77	0.49	1.21

Locus rs37936 Alleles A|G Chr 7q21.11 Location Neighborhood 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.384|0.372	4045|4861|1609|3800|4343|1365	10515|9508	6.19	0.0451702	2	0.95	0.90	1.01	0.90	0.83	0.98
NHS	8	0.400|0.365	403|541|178|474|476|171	1122|1121	10.04	0.0065968	2	0.75	0.62	0.90	0.82	0.64	1.05
STAGE1-2	18	0.399|0.369	1839|2287|833|1982|2203|705	4959|4890	17.09	1.94E-04	2	0.89	0.82	0.97	0.79	0.70	0.88
STAGE2	16	0.398|0.371	1436|1746|655|1508|1727|534	3837|3769	13.57	0.0011297	2	0.94	0.85	1.04	0.78	0.68	0.89
CPSII	20	0.387|0.373	199|251|79|202|249|70	529|521	0.51	0.7736987	2	0.98	0.75	1.27	0.87	0.60	1.27
PLCO	20	0.378|0.376	379|431|146|373|394|147	956|914	0.77	0.6812162	2	0.93	0.76	1.13	1.02	0.78	1.34
WHI	1	0.409|0.368	858|1064|430|933|1084|317	2352|2334	20.35	3.81E-05	2	0.94	0.83	1.06	0.68	0.57	0.81
STAGE3	21	0.372|0.377	2013|2359|714|1563|1857|577	5086|3997	0.38	0.8270998	2	1.01	0.93	1.11	1.04	0.92	1.18
NHS2	10	0.371|0.396	475|529|171|222|272|99	1175|593	2.14	0.34318	2	1.10	0.89	1.37	1.24	0.92	1.66
NOR	13	0.364|0.345	202|227|67|221|233|61	496|515	0.86	0.6517564	2	0.94	0.72	1.22	0.83	0.56	1.24
PBCS2	6	0.368|0.364	706|782|248|568|669|183	1736|1420	1.93	0.3809034	2	1.06	0.91	1.24	0.92	0.74	1.14
USRT	6	0.393|0.403	356|496|143|283|364|132	995|779	2.78	0.2489003	2	0.92	0.75	1.14	1.16	0.87	1.54
WHS	10	0.362|0.379	274|325|85|269|319|102	684|690	1.62	0.4445855	2	1.00	0.80	1.26	1.22	0.88	1.71
PBCS 1+2	12	0.367|0.364	899|997|310|823|952|266	2206|2041	1.35	0.5101837	2	1.04	0.92	1.19	0.94	0.78	1.13

Locus rs3817198 Alleles T|C Chr 11p15.5 Location Neighborhood 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.323|0.333	4881|4670|1113|4350|4237|1105	10664|9692	5.22	0.0734482	2	1.02	0.96	1.08	1.11	1.02	1.22
NHS	19	0.318|0.330	524|510|108|514|505|125	1142|1144	1.36	0.5067274	2	1.01	0.85	1.20	1.18	0.89	1.57
STAGE1-2	23	0.326|0.341	2533|2438|597|2485|2518|677	5568|5680	5.66	0.0590306	2	1.05	0.97	1.14	1.16	1.02	1.31
STAGE2	23	0.328|0.344	2009|1928|489|1971|2013|552	4426|4536	4.66	0.0973278	2	1.06	0.97	1.16	1.15	1.00	1.32
CPSII	22	0.334|0.345	243|231|64|235|227|70	538|532	0.40	0.8171561	2	1.02	0.79	1.31	1.13	0.77	1.66
PBCS1	21	0.319|0.333	229|228|47|292|299|71	504|662	0.67	0.7163528	2	1.03	0.81	1.31	1.18	0.79	1.78
PLCO	8	0.335|0.344	440|417|118|397|449|101	975|947	4.30	0.1162417	2	1.19	0.99	1.44	0.95	0.70	1.28
WHI	18	0.326|0.346	1097|1052|260|1047|1038|310	2409|2395	5.61	0.0606571	2	1.03	0.92	1.17	1.25	1.04	1.50
STAGE3	16	0.320|0.322	2347|2233|516|1859|1722|429	5096|4010	1.15	0.5625916	2	0.97	0.89	1.06	1.05	0.91	1.21
NHS2	15	0.320|0.314	538|516|117|285|246|64	1171|595	1.23	0.5418341	2	0.90	0.73	1.11	1.03	0.74	1.45
NOR	6	0.262|0.290	269|194|33|258|215|42	496|515	2.03	0.3621332	2	1.16	0.89	1.50	1.33	0.82	2.16
PBCS2	12	0.330|0.339	789|789|189|634|637|171	1767|1442	1.08	0.5824104	2	1.00	0.87	1.16	1.13	0.89	1.42
USRT	10	0.338|0.317	442|434|119|366|331|81	995|778	1.70	0.4267614	2	0.92	0.75	1.12	0.82	0.60	1.13
WHS	13	0.312|0.320	309|300|58|316|293|71	667|680	1.35	0.5102345	2	0.96	0.76	1.20	1.20	0.82	1.75
PBCS 1+2	13	0.328|0.336	1019|1016|236|932|933|241	2271|2106	1.25	0.5357023	2	1.00	0.89	1.14	1.12	0.91	1.36

Locus rs11077820 Alleles T|C Chr 17q25.1 Location Neighborhood 71966263 UBE2O, AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.370|0.365	4214|4964|1454|3948|4367|1348	10632|9663	4.62	0.0992576	2	0.94	0.88	1.00	0.99	0.91	1.08
NHS	14	0.382|0.370	429|553|160|475|492|178	1142|1145	6.86	0.0324497	2	0.80	0.67	0.96	1.00	0.78	1.29

STAGE1-2	11	0.380|0.368	2081|2738|750|2321|2552|815	5569|5688	21.07	2.66E-05	2	0.84	0.77	0.91	0.97	0.87	1.09
STAGE2	13	0.380|0.367	1652|2185|590|1846|2060|637	4427|4543	14.74	0.000629	2	0.84	0.77	0.92	0.97	0.85	1.10
CPSII	15	0.377|0.374	216|242|83|205|260|70	541|535	2.00	0.3671427	2	1.13	0.87	1.47	0.89	0.61	1.29
PBCS1	14	0.375|0.353	193|244|67|284|298|87	504|669	2.17	0.3376809	2	0.83	0.65	1.06	0.88	0.61	1.27
PLCO	12	0.371|0.355	371|484|120|395|430|121	975|946	3.51	0.1729516	2	0.83	0.69	1.01	0.95	0.71	1.27
WHI	2	0.385|0.374	872|1215|320|962|1072|359	2407|2393	15.56	0.0004186	2	0.80	0.71	0.90	1.02	0.85	1.21
STAGE3	11	0.359|0.362	2133|2225|705|1628|1817|533	5063|3978	2.72	0.2569843	2	1.07	0.98	1.17	0.99	0.87	1.13
NHS2	21	0.364|0.373	470|516|158|227|268|81	1144|576	0.45	0.7974921	2	1.08	0.87	1.34	1.06	0.78	1.45
NOR	7	0.329|0.316	225|216|55|233|237|44	496|514	2.02	0.3650726	2	1.06	0.82	1.37	0.77	0.50	1.20
PBCS2	5	0.359|0.375	732|784|238|563|671|204	1754|1438	2.18	0.3354851	2	1.11	0.96	1.29	1.11	0.90	1.38
USRT	18	0.371|0.380	405|441|148|303|353|118	994|774	0.46	0.7932919	2	1.07	0.87	1.31	1.07	0.80	1.42
WHS	7	0.356|0.340	301|268|106|302|288|86	675|676	2.80	0.2461439	2	1.07	0.85	1.35	0.81	0.58	1.12
PBCS 1+2	23	0.362|0.368	925|1029|304|846|967|291	2258|2104	0.30	0.8618715	2	1.03	0.90	1.17	1.05	0.87	1.26

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.391|0.382	3546|4486|1479|3251|4055|1238	9511|8544	4.15	0.1255299	2	0.99	0.93	1.05	0.91	0.84	1.00
STAGE1-2	22	0.397|0.377	1622|2102|710|1747|2172|628	4434|4547	9.39	0.0091433	2	0.96	0.88	1.05	0.82	0.72	0.93
STAGE2	19	0.397|0.377	1622|2102|710|1747|2172|628	4434|4547	9.39	0.0091433	2	0.96	0.88	1.05	0.82	0.72	0.93
CPSII	7	0.394|0.400	201|256|86|177|288|70	543|535	4.99	0.025751	2	1.28	0.98	1.66	0.92	0.64	1.34
PBCS1	16	0.409|0.380	176|246|84|257|316|96	506|669	2.10	0.3499763	2	0.88	0.68	1.13	0.78	0.55	1.11
PLCO	16	0.393|0.373	355|474|146|363|462|123	975|948	1.83	0.4003582	2	0.95	0.78	1.16	0.82	0.62	1.09
WHI	15	0.397|0.372	890|1126|394|950|1106|339	2410|2395	6.22	0.0446937	2	0.92	0.81	1.04	0.81	0.68	0.96
STAGE3	23	0.386|0.388	1926|2385|769|1504|1887|610	5080|4001	0.10	0.9507899	2	1.01	0.93	1.11	1.02	0.90	1.15
NHS2	23	0.384|0.385	446|528|178|220|273|87	1152|580	0.24	0.8867278	2	1.05	0.84	1.30	0.99	0.73	1.34
NOR	22	0.363|0.355	201|230|65|214|238|64	496|516	0.16	0.924716	2	0.97	0.75	1.27	0.92	0.62	1.37
PBCS2	7	0.399|0.411	621|858|268|504|692|247	1747|1443	1.85	0.3968029	2	0.99	0.85	1.16	1.14	0.92	1.40
USRT	14	0.382|0.370	389|452|154|309|358|108	995|775	0.82	0.6629537	2	1.00	0.81	1.22	0.88	0.66	1.18
WHS	21	0.380|0.389	269|317|104|257|326|104	690|687	0.39	0.8215183	2	1.08	0.85	1.36	1.05	0.76	1.44
PBCS 1+2	17	0.402|0.401	795|1103|352|761|1004|343	2250|2108	0.89	0.6423765	2	0.95	0.83	1.08	1.02	0.85	1.22

unadj_trend

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.393|0.425	3965|4951|1699|3207|4650|1761	10615|9618	40.89	1.61E-10	1	1.14	1.09	1.18	1.29	1.20	1.40
NHS	1	0.388|0.440	425|541|170|358|563|220	1136|1141	12.57	0.000392	1	1.24	1.10	1.39	1.53	1.21	1.95
STAGE1-2	3	0.401|0.431	2022|2615|919|1821|2814|1036	5556|5671	20.77	5.19E-06	1	1.13	1.07	1.19	1.28	1.15	1.42
STAGE2	11	0.404|0.429	1597|2074|749|1463|2251|816	4420|4530	11.00	0.0009106	1	1.11	1.04	1.17	1.22	1.09	1.38
CPSII	4	0.378|0.417	220|235|88|178|267|89	543|534	3.20	0.0737385	1	1.17	0.99	1.39	1.37	0.97	1.92
PBCS1	22	0.387|0.393	195|230|81|243|326|100	506|669	0.08	0.7770732	1	1.02	0.87	1.21	1.05	0.75	1.47
PLCO	23	0.420|0.421	324|476|169|315|465|165	969|945	0.00	0.9691555	1	1.00	0.88	1.14	1.01	0.78	1.30
WHI	2	0.407|0.444	858|1133|411|727|1193|462	2402|2382	13.63	2.23E-04	1	1.16	1.07	1.26	1.36	1.15	1.60
STAGE3	1	0.385|0.416	1947|2338|780|1386|1836|725	5065|3947	17.73	2.55E-05	1	1.14	1.07	1.20	1.29	1.15	1.45
NHS2	2	0.400|0.442	433|545|197|190|259|124	1175|573	5.54	0.0185813	1	1.18	1.03	1.36	1.40	1.06	1.85
NOR	6	0.380|0.408	184|242|66|180|244|86	492|510	1.64	0.2000703	1	1.13	0.94	1.35	1.27	0.88	1.82
PBCS2	1	0.362|0.398	719|778|240|518|661|231	1737|1410	8.39	0.0037631	1	1.16	1.05	1.28	1.35	1.10	1.65
USRT	5	0.385|0.410	387|443|159|271|371|132	989|774	2.28	0.1312902	1	1.11	0.97	1.27	1.23	0.94	1.61
WHS	3	0.421|0.445	224|330|118|227|301|152	672|680	1.48	0.2243665	1	1.10	0.95	1.27	1.20	0.89	1.62
PBCS 1+2	1	0.368|0.397	910|1006|321|761|987|331	2237|2079	7.12	0.0076165	1	1.12	1.03	1.23	1.26	1.06	1.50

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.239|0.218	6217|3775|655/5890|3353|435	10647|9678	24.26	8.40E-07	1	0.89	0.85	0.93	0.79	0.72	0.87
NHS	10	0.244|0.213	660|406|76/703|394|47	1142|1144	6.18	0.0129001	1	0.84	0.73	0.96	0.71	0.54	0.93
STAGE1-2	4	0.238|0.213	3263|1972|341/3506|1947|237	5576|5690	20.50	5.97E-06	1	0.87	0.81	0.92	0.75	0.66	0.85
STAGE2	4	0.236|0.213	2603|1566|265/2803|1553|190	4434|4546	14.53	1.38E-04	1	0.87	0.81	0.94	0.76	0.66	0.88
CPSII	13	0.235|0.222	319|193|31/325|182|28	543|535	0.46	0.4968311	1	0.93	0.76	1.14	0.87	0.58	1.30
PBCS1	6	0.242|0.213	291|185|30/409|234|25	506|668	2.94	0.0863657	1	0.84	0.69	1.03	0.71	0.48	1.05
PLCO	7	0.238|0.215	576|334|65/576|336|36	975|948	2.82	0.0929758	1	0.88	0.76	1.02	0.77	0.57	1.04
WHI	5	0.235|0.209	1417|854|139/1493|801|101	2410|2395	8.98	0.0027276	1	0.86	0.78	0.95	0.75	0.61	0.90
STAGE3	4	0.240|0.226	2955|1806|314/2386|1408|197	5075|3991	4.87	0.0272598	1	0.93	0.86	0.99	0.86	0.75	0.98
NHS2	17	0.232|0.226	698|374|81/350|195|33	1153|578	0.18	0.6717096	1	0.97	0.82	1.14	0.93	0.67	1.29
NOR	3	0.257|0.215	271|195|30/319|171|25	496|515	5.10	0.023951	1	0.79	0.64	0.97	0.62	0.41	0.94
PBCS2	8	0.236|0.226	1016|637|94/850|514|66	1747|1430	0.94	0.3310008	1	0.94	0.84	1.06	0.89	0.70	1.13
USRT	10	0.243|0.232	572|357|62/459|275|43	991|777	0.51	0.4752241	1	0.95	0.81	1.10	0.89	0.65	1.22
WHS	6	0.245|0.226	398|243|47/408|253|30	688|691	1.30	0.2545903	1	0.90	0.76	1.08	0.82	0.57	1.16
PBCS 1+2	6	0.237|0.222	1306|819|124/1257|746|92	2249|2095	2.90	0.0883354	1	0.92	0.83	1.01	0.84	0.69	1.03

Locus rs7716600 Alleles C|A Chr 5p12 Location Neighborhood 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.221|0.241	6483|3665|524/5603|3498|581	10672|9682	22.39	2.22E-06	1	1.12	1.07	1.17	1.25	1.14	1.37
NHS	6	0.215|0.249	693|402|44/652|415|78	1139|1145	7.53	0.0060599	1	1.21	1.06	1.39	1.47	1.12	1.94
STAGE1-2	1	0.216|0.243	3402|1924|241/3288|2028|370	5567|5686	23.51	1.24E-06	1	1.17	1.10	1.24	1.36	1.20	1.54
STAGE2	2	0.216|0.242	2709|1522|197/2636|1613|292	4428|4541	16.39	5.15E-05	1	1.15	1.08	1.24	1.33	1.16	1.53
CPSII	16	0.225|0.236	325|192|26/315|186|33	543|534	0.38	0.5362324	1	1.07	0.87	1.30	1.13	0.76	1.69
PBCS1	1	0.217|0.263	308|173|23/362|256|47	504|665	6.54	0.0105694	1	1.29	1.06	1.56	1.66	1.12	2.44
PLCO	12	0.223|0.238	577|359|37/546|353|49	973|948	1.34	0.2468369	1	1.10	0.94	1.28	1.20	0.88	1.63
WHI	4	0.212|0.239	1499|798|111/1413|818|163	2408|2394	9.78	0.0017672	1	1.16	1.06	1.28	1.35	1.12	1.63
STAGE3	7	0.226|0.237	3081|1743|283/2314|1473|210	5107|3997	2.90	0.088613	1	1.06	0.99	1.14	1.13	0.98	1.30
NHS2	15	0.227|0.235	712|397|69/338|219|28	1178|585	0.28	0.5989209	1	1.05	0.89	1.23	1.09	0.79	1.52
NOR	22	0.246|0.241	284|178|33/293|191|28	495|512	0.07	0.7843353	1	0.97	0.79	1.19	0.94	0.63	1.42
PBCS2	10	0.223|0.231	1070|586|98/847|518|74	1754|1439	0.64	0.4232687	1	1.05	0.93	1.18	1.10	0.87	1.39
USRT	3	0.216|0.253	604|350|39/430|293|49	993|772	7.10	0.0077164	1	1.24	1.06	1.46	1.54	1.12	2.12
WHS	23	0.233|0.228	411|232|44/406|252|31	687|689	0.10	0.7549767	1	0.97	0.81	1.16	0.95	0.66	1.35
PBCS 1+2	3	0.221|0.241	1378|757|121/1210|771|122	2256|2103	4.79	0.028553	1	1.12	1.01	1.23	1.25	1.02	1.52

Locus rs3134615 Alleles G|T Chr 1p34.2 Location Neighborhood 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.228|0.246	6374|3763|552/5488|3630|568	10689|9686	19.08	1.26E-05	1	1.11	1.06	1.16	1.23	1.12	1.34
NHS	2	0.220|0.263	690|402|50/617|454|74	1142|1145	11.86	0.0005742	1	1.27	1.11	1.46	1.62	1.23	2.14
STAGE1-2	7	0.227|0.250	3315|1996|265/3183|2170|339	5576|5692	17.70	2.59E-05	1	1.14	1.07	1.22	1.30	1.15	1.48
STAGE2	13	0.228|0.247	2625|1594|215/2566|1716|265	4434|4547	8.85	0.0029298	1	1.11	1.04	1.19	1.23	1.07	1.42
CPSII	11	0.215|0.236	326|200|17/313|192|30	543|535	1.29	0.2553746	1	1.13	0.92	1.39	1.27	0.84	1.92
PBCS1	16	0.226|0.238	299|185|22/387|245|37	506|669	0.49	0.485938	1	1.07	0.88	1.30	1.15	0.78	1.70
PLCO	9	0.236|0.258	578|334|63/516|375|57	975|948	2.49	0.1148498	1	1.12	0.97	1.30	1.27	0.94	1.69
WHI	13	0.228|0.248	1422|875|113/1350|904|141	2410|2395	4.98	0.0257157	1	1.11	1.01	1.23	1.24	1.03	1.50
STAGE3	6	0.229|0.240	3059|1767|287/2305|1463|230	5113|3998	3.31	0.0686974	1	1.07	1.00	1.14	1.14	0.99	1.30
NHS2	11	0.225|0.235	724|388|73/341|209|32	1185|582	0.36	0.5476046	1	1.05	0.89	1.24	1.11	0.80	1.53
NOR	10	0.232|0.253	292|179|26/284|200|30	497|514	1.18	0.2772063	1	1.12	0.91	1.38	1.26	0.83	1.90
PBCS2	19	0.226|0.231	1063|591|102/854|504|81	1756|1439	0.22	0.6376044	1	1.03	0.92	1.15	1.06	0.84	1.33
USRT	17	0.240|0.246	567|373|51/445|276|52	991|773	0.18	0.6725947	1	1.03	0.89	1.21	1.07	0.78	1.46
WHS	2	0.224|0.249	413|236|35/381|274|35	684|690	2.56	0.1094334	1	1.16	0.97	1.38	1.34	0.94	1.92
PBCS 1+2	16	0.226|0.233	1362|776|124/1241|746|117	2262|2104	0.52	0.4707927	1	1.04	0.94	1.15	1.08	0.88	1.31

Locus	Alleles	Chr	Location	Neighborhood										
rs4415084	C|T	5p12		44698272										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.407|0.429	3779|5060|1804|3184|4660|1808	10643|9652	18.96	1.34E-05	1	1.09	1.05	1.13	1.19	1.10	1.12	1.29
NHS	5	0.392|0.435	429|513|186|350|583|203	1128|1136	8.61	0.0033356	1	1.19	1.06	1.34	1.43	1.12	1.12	1.81
STAGE1-2	16	0.404|0.426	1986|2660|914|1884|2752|1046	5560|5682	11.79	0.0005964	1	1.10	1.04	1.16	1.20	1.08	1.08	1.34
STAGE2	19	0.406|0.424	1557|2147|728|1534|2169|843	4432|4546	5.62	0.0177722	1	1.07	1.01	1.14	1.15	1.03	1.03	1.30
CPSII	9	0.427|0.399	178|265|99|193|257|85	542|535	1.75	0.1862187	1	0.89	0.75	1.06	0.79	0.56	0.56	1.12
PBCS1	2	0.410|0.460	174|249|83|193|337|139	506|669	5.82	0.015809	1	1.23	1.04	1.45	1.51	1.08	1.08	2.10
PLCO	17	0.408|0.422	339|475|160|321|454|173	974|948	0.75	0.3853254	1	1.06	0.93	1.20	1.12	0.87	0.87	1.45
WHI	16	0.400|0.420	866|1158|386|827|1121|446	2410|2394	3.90	0.0483363	1	1.08	1.00	1.18	1.18	1.00	1.00	1.38
STAGE3	2	0.411|0.433	1793|2403|891|1302|1913|765	5087|3980	8.04	0.0045649	1	1.09	1.03	1.15	1.19	1.05	1.05	1.33
NHS2	4	0.399|0.434	436|540|199|188|281|111	1175|580	3.69	0.0547338	1	1.15	1.00	1.32	1.32	0.99	0.99	1.74
NOR	8	0.438|0.413	156|242|95|177|248|88	493|513	1.27	0.2600607	1	0.90	0.76	1.08	0.82	0.57	0.57	1.16
PBCS2	9	0.424|0.435	593|833|328|457|711|271	1754|1439	0.76	0.3837959	1	1.04	0.95	1.15	1.09	0.90	0.90	1.33
USRT	2	0.388|0.445	374|467|151|252|358|166	992|776	11.25	0.000797	1	1.25	1.10	1.43	1.57	1.21	1.21	2.05
WHS	13	0.414|0.426	234|321|118|228|315|129	673|672	0.42	0.5167556	1	1.05	0.90	1.22	1.11	0.82	0.82	1.49
PBCS 1+2	4	0.421|0.443	767|1079|410|648|1043|407	2256|2098	4.14	0.041839	1	1.09	1.00	1.19	1.19	1.01	1.01	1.41

Locus	Alleles	Chr	Location	Neighborhood											
rs17570439	T|C	1p34.2		40096797	TRIT1										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	6	0.209|0.226	6650|3528|455|5797|3380|500	10633|9677	18.52	1.68E-05	1	1.11	1.06	1.16	1.23	1.12	1.12	1.35	
NHS	3	0.204|0.244	719|381|42|654|424|67	1142|1145	10.72	0.0010575	1	1.27	1.10	1.46	1.60	1.21	1.21	2.12	
STAGE1-2	10	0.207|0.230	3473|1895|208|3380|2006|303	5576|5689	16.69	4.40E-05	1	1.14	1.07	1.22	1.30	1.15	1.15	1.48	
STAGE2	14	0.208|0.226	2754|1514|166|2726|1582|236	4434|4544	8.53	0.003494	1	1.11	1.04	1.20	1.24	1.07	1.07	1.43	
CPSII	10	0.196|0.218	343|187|13|329|179|27	543|535	1.59	0.2071463	1	1.15	0.93	1.42	1.31	0.86	0.86	2.01	
PBCS1	18	0.210|0.222	310|179|17|406|228|34	506|668	0.43	0.5142292	1	1.07	0.87	1.31	1.14	0.76	0.76	1.71	
PLCO	13	0.220|0.235	599|323|53|552|346|50	975|948	1.26	0.2623712	1	1.09	0.94	1.27	1.19	0.88	0.88	1.60	
WHI	10	0.206|0.225	1502|825|83|1439|829|125	2410|2393	5.70	0.0169514	1	1.13	1.02	1.24	1.27	1.04	1.04	1.55	
STAGE3	5	0.210|0.222	3177|1634|247|2416|1374|197	5058|3987	3.35	0.0671187	1	1.07	1.00	1.15	1.14	0.99	0.99	1.31	
NHS2	8	0.206|0.227	730|346|61|342|202|29	1137|573	1.93	0.1642474	1	1.13	0.95	1.33	1.27	0.91	0.91	1.78	
NOR	7	0.210|0.233	310|164|22|301|185|27	496|513	1.59	0.2076341	1	1.15	0.93	1.41	1.31	0.86	0.86	2.00	
PBCS2	12	0.208|0.216	1111|557|86|891|478|72	1754|1441	0.59	0.441558	1	1.05	0.93	1.18	1.10	0.87	0.87	1.39	
USRT	22	0.218|0.221	607|344|45|476|258|43	996|777	0.06	0.8039169	1	1.02	0.87	1.20	1.04	0.76	0.76	1.43	
WHS	14	0.214|0.222	419|223|33|406|251|26	675|683	0.24	0.6209417	1	1.05	0.87	1.26	1.10	0.76	0.76	1.59	
PBCS 1+2	12	0.208|0.218	1421|735|103|1298|706|106	2259|2110	1.10	0.2943556	1	1.06	0.95	1.17	1.12	0.91	0.91	1.37	

Locus	Alleles	Chr	Location	Neighborhood											
rs2303659	G|A	11q24.3		129326474	PRDM10										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	7	0.035|0.028	9926|718|10|9156|508|14	10654|9678	16.01	6.31E-05	1	0.79	0.71	0.89	0.63	0.50	0.50	0.79	
NHS	13	0.034|0.024	1064|78|0|1089|56|0	1142|1145	3.90	0.0483349	1	0.70	0.49	1.00	0.49	0.24	0.24	1.00	
STAGE1-2	9	0.034|0.025	5198|376|2|5412|277|3	5576|5692	17.00	3.73E-05	1	0.72	0.61	0.84	0.52	0.38	0.38	0.71	
STAGE2	6	0.034|0.025	4134|298|2|4323|221|3	4434|4547	13.13	2.90E-04	1	0.72	0.61	0.86	0.52	0.37	0.37	0.74	
CPSII	2	0.030|0.017	510|33|0|518|16|1	543|535	4.23	0.0398003	1	0.55	0.31	0.98	0.30	0.10	0.10	0.96	
PBCS1	8	0.033|0.022	473|33|0|640|29|0	506|669	2.76	0.0968477	1	0.65	0.39	1.08	0.42	0.15	0.15	1.18	
PLCO	10	0.036|0.028	906|68|1|895|52|1	975|948	1.69	0.1929965	1	0.79	0.55	1.13	0.62	0.30	0.30	1.28	
WHI	11	0.034|0.026	2245|164|1|2270|124|1	2410|2395	5.49	0.0191137	1	0.75	0.59	0.96	0.57	0.35	0.35	0.91	
STAGE3	8	0.035|0.032	4728|342|8|3745|231|11	5078|3987	1.65	0.1985887	1	0.90	0.77	1.06	0.81	0.59	0.59	1.12	
NHS2	3	0.040|0.025	1074|82|5|558|21|4	1161|583	4.51	0.0336995	1	0.65	0.43	0.97	0.42	0.19	0.19	0.94	
NOR	13	0.036|0.043	460|36|0|472|44|0	496|516	0.56	0.4544747	1	1.19	0.75	1.88	1.42	0.57	0.57	3.55	
PBCS2	16	0.032|0.030	1648|112|1|1358|83|2	1761|1443	0.26	0.611312	1	0.93	0.70	1.23	0.86	0.49	0.49	1.52	
USRT	18	0.037|0.035	920|74|0|723|54|0	994|777	0.16	0.6898258	1	0.93	0.65	1.34	0.86	0.42	0.42	1.79	

WHS	21	0.032|0.029	626|38|2|634|29|5	666|668	0.11	0.7422466	1	0.93	0.62	1.41	0.87	0.38	1.99
PBCS 1+2	10	0.032|0.027	2121|145|1|1997|112|2	2267|2111	1.85	0.1737974	1	0.84	0.66	1.08	0.71	0.43	1.16

Locus	Alleles	Chr	Location	Neighborhood									
rs10850145	C|T	12q24.13		112428512									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.095|0.106	8763|1844|91|7754|1837|115	10698|9706	15.67	7.54E-05	1	1.14	1.07	1.22	1.30	1.14	1.48
NHS	7	0.086|0.110	951|186|5|912|215|18	1142|1145	7.30	0.006898	1	1.31	1.08	1.59	1.72	1.16	2.54
STAGE1-2	5	0.090|0.108	4627|897|52|4535|1085|70	5576|5690	20.00	7.76E-06	1	1.22	1.12	1.33	1.49	1.25	1.77
STAGE2	5	0.091|0.107	3676|711|47|3623|870|52	4434|4545	13.31	2.65E-04	1	1.20	1.09	1.32	1.44	1.18	1.75
CPSII	17	0.099|0.107	444|90|9|426|103|6	543|535	0.36	0.5473306	1	1.09	0.83	1.43	1.18	0.69	2.04
PBCS1	9	0.094|0.113	417|83|6|523|141|5	506|669	2.25	0.1333181	1	1.23	0.94	1.62	1.52	0.88	2.62
PLCO	6	0.077|0.094	832|135|8|775|167|6	975|948	3.53	0.0601097	1	1.24	0.99	1.56	1.54	0.98	2.43
WHI	6	0.094|0.111	1983|403|24|1899|459|35	2410|2393	7.39	0.0065559	1	1.20	1.05	1.37	1.44	1.11	1.87
STAGE3	10	0.100|0.105	4136|948|39|3221|752|45	5123|4018	1.07	0.3003953	1	1.05	0.96	1.16	1.11	0.91	1.34
NHS2	16	0.103|0.108	947|218|12|474|96|15	1177|585	0.19	0.6623319	1	1.05	0.84	1.31	1.10	0.71	1.72
NOR	14	0.081|0.090	414|80|0|426|82|5	494|513	0.50	0.4784611	1	1.12	0.82	1.54	1.26	0.67	2.38
PBCS2	15	0.104|0.108	1412|338|15|1152|282|16	1765|1450	0.28	0.5987165	1	1.04	0.89	1.23	1.09	0.79	1.50
USRT	23	0.105|0.106	799|184|12|622|146|9	995|777	0.01	0.9226848	1	1.01	0.81	1.25	1.02	0.66	1.57
WHS	5	0.092|0.105	564|128|0|547|146|0	692|693	1.44	0.2298343	1	1.18	0.90	1.53	1.38	0.81	2.35
PBCS 1+2	11	0.102|0.110	1829|420|21|1673|423|21	2270|2117	1.53	0.2156371	1	1.09	0.95	1.25	1.19	0.90	1.57

Locus	Alleles	Chr	Location	Neighborhood									
rs2067980	A|G	5p12		45018074									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.159|0.173	7544|2828|285|6652|2704|318	10657|9674	12.59	0.0003888	1	1.10	1.04	1.16	1.21	1.09	1.34
NHS	9	0.151|0.178	814|311|17|769|342|33	1142|1144	6.42	0.0112574	1	1.23	1.05	1.44	1.51	1.10	2.08
STAGE1-2	2	0.151|0.174	4007|1455|114|3905|1597|189	5576|5691	21.08	4.40E-06	1	1.18	1.10	1.27	1.39	1.21	1.61
STAGE2	3	0.151|0.172	3193|1144|97|3136|1255|156	4434|4547	14.99	1.08E-04	1	1.17	1.08	1.27	1.37	1.17	1.60
CPSII	20	0.159|0.164	383|147|13|377|140|18	543|535	0.10	0.7460733	1	1.04	0.83	1.30	1.08	0.68	1.70
PBCS1	4	0.191|0.227	335|149|22|400|234|35	506|669	4.50	0.0339061	1	1.24	1.02	1.52	1.54	1.03	2.30
PLCO	5	0.144|0.166	714|241|20|658|265|25	975|948	3.58	0.0584207	1	1.18	0.99	1.41	1.40	0.99	1.99
WHI	9	0.143|0.161	1761|607|42|1701|616|78	2410|2395	5.82	0.0158246	1	1.15	1.03	1.28	1.31	1.05	1.64
STAGE3	16	0.169|0.172	3537|1374|171|2747|1110|129	5082|3986	0.24	0.6272299	1	1.02	0.94	1.10	1.04	0.89	1.21
NHS2	9	0.170|0.156	810|306|44|411|145|17	1160|573	0.98	0.3228587	1	0.91	0.75	1.10	0.83	0.57	1.20
NOR	17	0.142|0.135	364|125|8|382|127|6	497|515	0.21	0.6456548	1	0.94	0.73	1.22	0.89	0.53	1.48
PBCS2	22	0.190|0.192	1158|519|73|941|441|55	1750|1437	0.03	0.8636704	1	1.01	0.89	1.14	1.02	0.80	1.31
USRT	4	0.155|0.177	713|256|26|530|216|29	995|775	2.98	0.0841888	1	1.17	0.98	1.39	1.36	0.96	1.94
WHS	11	0.153|0.164	492|168|20|483|181|22	680|686	0.60	0.4384682	1	1.08	0.89	1.32	1.17	0.78	1.75
PBCS 1+2	8	0.190|0.203	1493|667|95|1341|672|90	2255|2103	2.12	0.1454611	1	1.08	0.97	1.20	1.17	0.95	1.44

Locus	Alleles	Chr	Location	Neighborhood										
rs1274466	T|C	10p11.21		34510210	PARD3									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	10	0.449|0.432	3262|5237|2175|3133|4725|1825	10674|9683	11.30	0.0007768	1	0.94	0.90	0.97	0.87	0.81	0.95	
NHS	12	0.470|0.439	312|586|244|357|569|218	1142|1144	4.51	0.0337141	1	0.88	0.78	0.99	0.77	0.61	0.98	
STAGE1-2	12	0.456|0.430	1656|2757|1163|1852|2785|1053	5576|5690	15.39	8.74E-05	1	0.90	0.85	0.95	0.81	0.73	0.90	
STAGE2	12	0.452|0.427	1344|2171|919|1495|2216|835	4434|4546	10.99	0.0009139	1	0.91	0.85	0.96	0.82	0.73	0.92	
CPSII	6	0.471|0.436	152|271|120|172|259|104	543|535	2.51	0.1134113	1	0.87	0.74	1.03	0.76	0.54	1.07	
PBCS1	5	0.483|0.446	138|247|121|200|340|128	506|668	3.21	0.0733658	1	0.86	0.73	1.01	0.74	0.53	1.03	
PLCO	4	0.449|0.419	298|478|199|319|464|165	975|948	3.62	0.0571498	1	0.88	0.78	1.00	0.78	0.60	1.01	
WHI	18	0.443|0.424	756|1175|479|804|1153|438	2410|2395	3.46	0.0627162	1	0.93	0.86	1.00	0.86	0.73	1.01	
STAGE3	12	0.442|0.436	1606|2484|1013|1282|1942|774	5103|3998	0.53	0.4668049	1	0.98	0.92	1.04	0.96	0.85	1.08	
NHS2	20	0.441|0.435	379|559|240|186|286|110	1178|582	0.12	0.7266275	1	0.98	0.85	1.12	0.95	0.72	1.26	

NOR	18	0.391|0.401	184|235|76|188|240|86	495|514	0.20	0.6529703	1	1.04	0.87	1.24	1.08	0.76	1.55
PBCS2	5	0.457|0.441	518|863|368|456|695|287	1749|1438	1.59	0.2075264	1	0.94	0.85	1.04	0.88	0.72	1.07
USRT	12	0.454|0.444	295|489|205|243|378|156	989|777	0.38	0.5357989	1	0.96	0.84	1.10	0.92	0.70	1.20
WHS	4	0.423|0.446	230|338|124|209|343|135	692|687	1.46	0.2274279	1	1.10	0.94	1.28	1.20	0.89	1.63
PBCS 1+2	5	0.463|0.442	656|1106|488|655|1033|413	2250|2101	3.57	0.058811	1	0.92	0.85	1.00	0.85	0.72	1.01

Locus rs10941679 Alleles A|G Chr 5p12 Location Neighborhood 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.259|0.279	3047|2125|374|2387|1867|353	5546|4607	10.52	0.0011835	1	1.11	1.04	1.18	1.23	1.09	1.39
STAGE3	3	0.259|0.277	2791|1931|347|2070|1609|297	5069|3976	7.47	0.006268	1	1.10	1.03	1.17	1.20	1.05	1.37
NHS2	7	0.255|0.277	637|430|76|301|228|45	1143|574	1.97	0.1608271	1	1.12	0.96	1.31	1.26	0.91	1.73
NOR	9	0.303|0.282	239|213|44|265|210|40	496|515	1.18	0.2768978	1	0.90	0.74	1.09	0.81	0.55	1.19
PBCS2	3	0.259|0.276	969|667|121|737|605|94	1757|1436	2.50	0.1135055	1	1.10	0.98	1.23	1.20	0.96	1.50
USRT	1	0.236|0.290	575|373|49|395|307|71	997|773	13.29	2.67E-04	1	1.32	1.14	1.54	1.75	1.30	2.38
WHS	19	0.268|0.260	371|248|57|372|259|47	676|678	0.19	0.666769	1	0.96	0.81	1.14	0.93	0.66	1.30
PBCS 1+2	2	0.259|0.281	1225|861|148|1054|863|150	2234|2067	5.55	0.018435	1	1.12	1.02	1.24	1.26	1.04	1.53

Locus rs9491859 Alleles C|A Chr 6q22.33 Location Neighborhood 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.355|0.369	4448|4846|1351|3883|4411|1360	10645|9654	9.49	0.0020694	1	1.07	1.02	1.11	1.14	1.05	1.23
NHS	14	0.356|0.381	459|552|130|447|523|175	1141|1145	3.20	0.0736204	1	1.12	0.99	1.26	1.25	0.98	1.59
STAGE1-2	11	0.348|0.374	2351|2569|655|2284|2560|846	5575|5690	15.98	6.41E-05	1	1.12	1.06	1.18	1.25	1.12	1.39
STAGE2	7	0.346|0.372	1892|2017|525|1837|2037|671	4434|4545	12.82	0.0003429	1	1.12	1.05	1.19	1.25	1.11	1.41
CPSII	19	0.350|0.339	220|266|57|238|231|66	543|535	0.28	0.5988993	1	0.95	0.80	1.14	0.91	0.63	1.30
PBCS1	19	0.345|0.356	216|231|59|287|287|94	506|668	0.28	0.5970896	1	1.05	0.88	1.24	1.10	0.78	1.53
PLCO	2	0.333|0.374	437|427|111|378|430|140	975|948	7.12	0.007613	1	1.20	1.05	1.36	1.43	1.10	1.86
WHI	3	0.350|0.382	1019|1093|298|934|1089|371	2410|2394	10.37	0.0012808	1	1.14	1.05	1.24	1.31	1.11	1.54
STAGE3	22	0.362|0.363	2098|2281|696|1600|1852|514	5075|3966	0.03	0.8668514	1	1.01	0.95	1.07	1.01	0.89	1.14
NHS2	23	0.367|0.365	482|523|170|238|257|82	1175|577	0.02	0.8912604	1	0.99	0.86	1.14	0.98	0.74	1.31
NOR	24	0.372|0.371	200|212|75|200|232|70	487|502	0.00	0.9587393	1	1.00	0.83	1.19	0.99	0.69	1.42
PBCS2	24	0.349|0.349	744|779|218|599|660|169	1741|1428	0.00	0.9667172	1	1.00	0.90	1.11	1.00	0.82	1.24
USRT	15	0.374|0.366	391|459|141|311|366|102	991|779	0.24	0.6242532	1	0.97	0.84	1.11	0.93	0.71	1.23
WHS	7	0.361|0.382	281|308|92|252|337|91	681|680	1.23	0.267502	1	1.09	0.93	1.28	1.19	0.87	1.63
PBCS 1+2	20	0.348|0.351	959|1006|277|885|946|263	2242|2094	0.12	0.7283692	1	1.02	0.93	1.11	1.03	0.87	1.23

Locus rs724244 Alleles C|T Chr 3p24.1 Location Neighborhood 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.261|0.275	5213|3644|662|4497|3397|649	9519|8543	8.75	0.0030964	1	1.07	1.02	1.12	1.15	1.05	1.26
STAGE1-2	6	0.252|0.281	2473|1688|272|2354|1826|363	4433|4543	19.50	1.01E-05	1	1.16	1.09	1.24	1.35	1.18	1.54
STAGE2	1	0.252|0.281	2473|1688|272|2354|1826|363	4433|4543	19.50	1.01E-05	1	1.16	1.09	1.24	1.35	1.18	1.54
CPSII	8	0.247|0.273	309|198|35|287|202|45	542|534	1.85	0.1736715	1	1.14	0.94	1.38	1.30	0.89	1.90
PBCS1	14	0.246|0.265	293|177|36|368|245|54	506|667	0.98	0.3211717	1	1.10	0.91	1.32	1.20	0.83	1.73
PLCO	1	0.230|0.291	569|364|42|481|381|85	975|947	18.84	1.42E-05	1	1.38	1.19	1.60	1.91	1.42	2.56
WHI	12	0.263|0.283	1302|949|159|1218|998|179	2410|2395	5.06	0.0244995	1	1.11	1.01	1.22	1.23	1.03	1.48
STAGE3	20	0.269|0.268	2740|1960|390|2144|1572|286	5090|4002	0.04	0.8464814	1	0.99	0.93	1.06	0.99	0.87	1.13
NHS2	10	0.270|0.283	638|417|105|302|231|49	1160|582	0.56	0.4540713	1	1.06	0.91	1.23	1.12	0.83	1.52
NOR	12	0.248|0.264	276|192|27|278|204|34	495|516	0.62	0.4309287	1	1.08	0.89	1.33	1.18	0.78	1.77
PBCS2	6	0.273|0.261	926|696|131|778|567|92	1753|1437	1.16	0.2817686	1	0.94	0.84	1.05	0.88	0.71	1.11
USRT	16	0.273|0.267	524|397|73|418|302|56	994|776	0.18	0.6710384	1	0.97	0.83	1.12	0.94	0.69	1.26
WHS	18	0.266|0.274	376|258|54|368|268|55	688|691	0.19	0.6610503	1	1.04	0.88	1.22	1.08	0.77	1.50
PBCS 1+2	19	0.267|0.262	1219|869|167|1145|811|146	2255|2102	0.21	0.6454463	1	0.98	0.89	1.08	0.96	0.79	1.16

Locus	Alleles	Chr	Location	Neighborhood										
rs12622050	G|A	2q11.2		100945886 NPAS2										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	14	0.223|0.212	6394|3731|508/6029|3163|462	10633|9654	7.90	0.0049376	1	0.93	0.89	0.98	0.87	0.79	0.96	
NHS	8	0.220|0.189	695|392|55/754|349|42	1142|1145	6.60	0.0101728	1	0.83	0.72	0.96	0.69	0.51	0.91	
STAGE1-2	15	0.220|0.201	3356|1980|239/3650|1790|248	5575|5688	12.96	0.0003174	1	0.89	0.83	0.95	0.79	0.69	0.90	
STAGE2	17	0.221|0.204	2661|1588|184/2896|1441|206	4433|4543	7.54	0.0060418	1	0.90	0.84	0.97	0.82	0.71	0.94	
CPSII	14	0.217|0.205	323|203|16/341|165|27	542|533	0.43	0.5132963	1	0.93	0.76	1.15	0.87	0.57	1.32	
PBCS1	21	0.244|0.239	284|197|25/391|235|42	506|668	0.09	0.7656148	1	0.97	0.80	1.18	0.94	0.64	1.38	
PLCO	3	0.229|0.199	577|350|48/606|307|35	975|948	5.18	0.0228062	1	0.83	0.71	0.98	0.70	0.51	0.95	
WHI	14	0.213|0.196	1477|838|95/1558|734|102	2410|2394	4.48	0.0343452	1	0.90	0.81	0.99	0.81	0.66	0.98	
STAGE3	24	0.226|0.227	3039|1753|269/2380|1375|213	5061|3968	0.01	0.924049	1	1.00	0.94	1.08	1.01	0.88	1.16	
NHS2	22	0.205|0.202	734|358|56/359|188|21	1148|568	0.02	0.8794497	1	0.99	0.83	1.18	0.97	0.69	1.38	
NOR	23	0.221|0.219	297|179|20/314|175|25	496|514	0.01	0.9172188	1	0.99	0.80	1.22	0.98	0.64	1.50	
PBCS2	17	0.252|0.258	980|644|117/793|540|99	1741|1432	0.25	0.617961	1	1.03	0.92	1.15	1.06	0.85	1.33	
USRT	24	0.206|0.205	626|327|41/495|242|38	994|775	0.00	0.9668565	1	1.00	0.85	1.17	0.99	0.72	1.38	
WHS	8	0.231|0.214	402|245|35/419|230|30	682|679	1.20	0.2729668	1	0.90	0.75	1.08	0.82	0.57	1.17	
PBCS 1+2	23	0.250|0.252	1263|839|142/1183|773|142	2244|2098	0.03	0.8573956	1	1.01	0.92	1.11	1.02	0.84	1.23	
Locus	Alleles	Chr	Location	Neighborhood										
rs12608723	A|G	19q13.11		38508973										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	15	0.136|0.128	7995|2464|224/7377|2145|166	10683|9688	6.24	0.0125191	1	0.93	0.88	0.98	0.86	0.77	0.97	
NHS	4	0.153|0.123	819|296|27/877|252|15	1142|1144	8.68	0.0032131	1	0.78	0.65	0.92	0.60	0.43	0.84	
STAGE1-2	13	0.143|0.126	4103|1351|122/4355|1242|94	5576|5691	14.51	1.40E-04	1	0.86	0.80	0.93	0.74	0.64	0.87	
STAGE2	16	0.140|0.126	3284|1055|95/3478|990|79	4434|4547	7.68	0.0055758	1	0.89	0.81	0.97	0.79	0.66	0.93	
CPSII	7	0.140|0.120	398|138|7/417|108|10	543|535	1.99	0.1581368	1	0.83	0.65	1.07	0.69	0.42	1.15	
PBCS1	7	0.153|0.129	364|129|13/510|146|13	506|669	2.85	0.0914868	1	0.82	0.65	1.03	0.67	0.42	1.07	
PLCO	19	0.132|0.124	738|216|21/732|196|20	975|948	0.51	0.4771423	1	0.94	0.78	1.13	0.87	0.60	1.27	
WHI	17	0.141|0.128	1784|572|54/1819|540|36	2410|2395	3.64	0.05646	1	0.89	0.79	1.00	0.80	0.63	1.01	
STAGE3	17	0.129|0.132	3894|1116|102/3022|909|72	5112|4003	0.23	0.6332982	1	1.02	0.94	1.11	1.04	0.88	1.24	
NHS2	18	0.127|0.122	907|259|21/453|118|12	1187|583	0.17	0.6763515	1	0.96	0.77	1.18	0.91	0.60	1.39	
NOR	2	0.128|0.167	380|103|12/356|148|12	495|516	5.82	0.0158319	1	1.35	1.06	1.73	1.83	1.12	3.01	
PBCS2	13	0.124|0.118	1344|368|32/1120|300|20	1744|1440	0.49	0.4838405	1	0.95	0.82	1.10	0.90	0.66	1.21	
USRT	20	0.138|0.142	736|239|17/573|191|15	992|779	0.13	0.715621	1	1.04	0.86	1.26	1.07	0.73	1.58	
WHS	20	0.135|0.130	527|147|20/520|152|13	694|685	0.13	0.7174204	1	0.96	0.78	1.19	0.92	0.60	1.42	
PBCS 1+2	9	0.130|0.120	1706|494|45/1630|440|33	2245|2103	1.85	0.1737514	1	0.92	0.81	1.04	0.84	0.65	1.08	
Locus	Alleles	Chr	Location	Neighborhood										
rs37936	A|G	7q21.11		79806994										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	16	0.384|0.372	4045|4861|1609/3800|4343|1365	10515|9508	6.19	0.0128179	1	0.95	0.91	0.99	0.90	0.83	0.98	
NHS	11	0.400|0.365	403|541|178/474|476|171	1122|1121	5.56	0.0184205	1	0.87	0.77	0.98	0.75	0.59	0.95	
STAGE1-2	8	0.399|0.369	1839|2287|833/1982|2203|705	4959|4890	17.05	3.63E-05	1	0.89	0.84	0.94	0.79	0.70	0.88	
STAGE2	10	0.398|0.371	1436|1746|655/1508|1727|534	3837|3769	11.68	0.0006307	1	0.89	0.84	0.95	0.80	0.70	0.91	
CPSII	15	0.387|0.373	199|251|79/202|249|70	529|521	0.40	0.5292391	1	0.94	0.79	1.13	0.89	0.63	1.27	
PLCO	22	0.378|0.376	379|431|146/373|394|147	956|914	0.01	0.9136779	1	0.99	0.87	1.13	0.99	0.76	1.27	
WHI	1	0.409|0.368	858|1064|430/933|1084|317	2352|2334	15.99	6.36E-05	1	0.85	0.78	0.92	0.72	0.61	0.84	
STAGE3	14	0.372|0.377	2013|2359|714/1563|1857|577	5086|3997	0.36	0.5483394	1	1.02	0.96	1.08	1.04	0.92	1.17	
NHS2	6	0.371|0.396	475|529|171/222|272|99	1175|593	2.12	0.1451082	1	1.11	0.96	1.28	1.23	0.93	1.63	
NOR	11	0.364|0.345	202|227|67/221|233|61	496|515	0.81	0.3667994	1	0.92	0.77	1.10	0.85	0.59	1.22	
PBCS2	21	0.368|0.364	706|782|248/568|669|183	1736|1420	0.09	0.7656865	1	0.98	0.89	1.09	0.97	0.79	1.19	
USRT	13	0.393|0.403	356|496|143/283|364|132	995|779	0.38	0.5386629	1	1.04	0.91	1.20	1.09	0.83	1.43	

WHS	9	0.362|0.379	274|325|85|269|319|102	684|690	0.87	0.3509654	1	1.08	0.92	1.26	1.16	0.85	1.58
PBCS 1+2	21	0.367|0.364	899|997|310|823|952|266	2206|2041	0.08	0.7786881	1	0.99	0.90	1.08	0.98	0.82	1.16

Locus	Alleles	Chr	Location	Neighborhood									
rs998592	G|A	16p13.13		11107179 CLEC16A									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.426|0.414	3559|5120|1981|3270|4814|1604	10660|9688	5.98	0.0144835	1	0.95	0.92	0.99	0.91	0.84	0.98
NHS	21	0.425|0.431	405|502|233|349|605|191	1140|1145	0.19	0.6614653	1	1.03	0.91	1.15	1.05	0.83	1.33
STAGE1-2	17	0.439|0.420	1803|2653|1118|1861|2884|947	5574|5692	8.19	0.0042147	1	0.93	0.88	0.98	0.86	0.77	0.95
STAGE2	9	0.442|0.417	1398|2151|885|1512|2279|756	4434|4547	11.79	0.0005948	1	0.90	0.85	0.96	0.81	0.72	0.91
CPSII	1	0.475|0.415	158|254|131|184|258|93	543|535	7.61	0.0058038	1	0.79	0.67	0.93	0.62	0.45	0.87
PBCS1	3	0.415|0.369	186|220|100|264|316|89	506|669	4.89	0.0269966	1	0.83	0.70	0.98	0.69	0.50	0.96
PLCO	21	0.419|0.411	324|485|166|320|476|152	975|948	0.23	0.6282813	1	0.97	0.85	1.10	0.94	0.72	1.22
WHI	19	0.450|0.433	730|1192|488|744|1229|422	2410|2395	2.88	0.0894554	1	0.93	0.86	1.01	0.87	0.74	1.02
STAGE3	11	0.412|0.406	1756|2467|864|1410|1932|657	5087|3999	0.78	0.3780469	1	0.97	0.92	1.03	0.95	0.84	1.07
NHS2	14	0.418|0.427	394|568|202|192|283|107	1164|582	0.28	0.5938621	1	1.04	0.90	1.20	1.08	0.81	1.44
NOR	16	0.390|0.400	186|231|77|187|245|84	494|516	0.23	0.6312113	1	1.04	0.87	1.25	1.09	0.77	1.55
PBCS2	18	0.400|0.394	625|849|274|528|682|223	1748|1433	0.24	0.6244272	1	0.98	0.88	1.08	0.95	0.78	1.16
USRT	6	0.439|0.415	313|490|192|268|373|136	995|777	2.06	0.1507922	1	0.91	0.79	1.04	0.82	0.63	1.07
WHS	22	0.413|0.407	238|329|119|235|349|107	686|691	0.10	0.7514779	1	0.98	0.84	1.14	0.95	0.70	1.29
PBCS 1+2	7	0.403|0.386	811|1069|373|791|996|312	2253|2099	2.58	0.1082359	1	0.93	0.86	1.02	0.87	0.73	1.03

Locus	Alleles	Chr	Location	Neighborhood									
rs7936636	C|T	11p11.2		44397546									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.255|0.245	5896|4093|666|5545|3548|599	10655|9692	5.14	0.0233973	1	0.95	0.91	0.99	0.90	0.82	0.99
NHS	15	0.256|0.240	635|430|77|673|395|77	1142|1145	1.51	0.2186372	1	0.92	0.81	1.05	0.85	0.65	1.10
STAGE1-2	14	0.263|0.242	3003|2205|365|3307|2014|370	5573|5691	13.51	2.38E-04	1	0.89	0.84	0.95	0.80	0.71	0.90
STAGE2	8	0.265|0.243	2368|1775|288|2634|1619|293	4431|4546	12.27	0.0004615	1	0.89	0.83	0.95	0.79	0.69	0.90
CPSII	5	0.266|0.233	286|224|32|323|175|37	542|535	3.10	0.0784664	1	0.84	0.69	1.02	0.70	0.48	1.04
PBCS1	12	0.247|0.226	284|193|28|406|222|40	505|668	1.32	0.2501132	1	0.89	0.74	1.08	0.80	0.55	1.17
PLCO	15	0.263|0.249	526|385|64|546|332|70	975|948	0.99	0.3205998	1	0.93	0.81	1.07	0.86	0.65	1.15
WHI	7	0.270|0.247	1272|973|164|1359|890|146	2409|2395	6.86	0.0087914	1	0.88	0.81	0.97	0.78	0.65	0.94
STAGE3	15	0.245|0.249	2893|1888|301|2238|1535|228	5082|4001	0.36	0.5493139	1	1.02	0.95	1.09	1.04	0.91	1.20
NHS2	5	0.264|0.235	630|457|79|344|206|34	1166|584	3.48	0.0619352	1	0.86	0.73	1.01	0.73	0.53	1.02
NOR	1	0.192|0.237	326|153|19|301|185|30	498|516	6.18	0.0129382	1	1.31	1.06	1.62	1.71	1.12	2.62
PBCS2	2	0.245|0.264	993|643|105|769|569|94	1741|1432	3.13	0.0767626	1	1.11	0.99	1.24	1.23	0.98	1.54
USRT	9	0.254|0.240	553|376|64|442|301|37	993|780	0.86	0.3534184	1	0.93	0.79	1.09	0.86	0.63	1.18
WHS	15	0.239|0.247	391|259|34|382|274|33	684|689	0.23	0.6283644	1	1.05	0.87	1.25	1.09	0.76	1.56
PBCS 1+2	15	0.245|0.252	1277|836|133|1175|790|135	2246|2100	0.58	0.446735	1	1.04	0.94	1.14	1.08	0.89	1.31

Locus	Alleles	Chr	Location	Neighborhood									
rs3817198	T|C	11p15.5		1865582 LSP1									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.323|0.333	4881|4670|1113|4350|4237|1105	10664|9692	3.93	0.047513	1	1.04	1.00	1.09	1.09	1.00	1.18
NHS	17	0.318|0.330	524|510|108|514|505|125	1142|1144	0.78	0.3779914	1	1.06	0.93	1.20	1.12	0.87	1.44
STAGE1-2	20	0.326|0.341	2533|2438|597|2485|2518|677	5568|5680	5.41	0.0199704	1	1.07	1.01	1.13	1.14	1.02	1.27
STAGE2	20	0.328|0.344	2009|1928|489|1971|2013|552	4426|4536	4.63	0.0313851	1	1.07	1.01	1.14	1.14	1.01	1.29
CPSII	18	0.334|0.345	243|231|64|235|227|70	538|532	0.29	0.5898289	1	1.05	0.88	1.25	1.10	0.78	1.56
PBCS1	15	0.319|0.333	229|228|47|292|299|71	504|662	0.50	0.480964	1	1.07	0.89	1.27	1.14	0.80	1.62
PLCO	20	0.335|0.344	440|417|118|397|449|101	975|947	0.34	0.5615328	1	1.04	0.91	1.19	1.08	0.83	1.42
WHI	15	0.326|0.346	1097|1052|260|1047|1038|310	2409|2395	4.14	0.0418497	1	1.09	1.00	1.19	1.19	1.01	1.41
STAGE3	21	0.320|0.322	2347|2233|516|1859|1722|429	5096|4010	0.04	0.8470494	1	1.01	0.95	1.07	1.01	0.89	1.15
NHS2	19	0.320|0.314	538|516|117|285|246|64	1171|595	0.13	0.7203242	1	0.97	0.84	1.13	0.95	0.70	1.28

NOR	5	0.262|0.290	269|194|33|258|215|42	496|515	2.03	0.1541213	1	1.15	0.95	1.40	1.33	0.90	1.97
PBCS2	11	0.330|0.339	789|789|189|634|637|171	1767|1442	0.61	0.4355697	1	1.04	0.94	1.16	1.09	0.88	1.34
USRT	7	0.338|0.317	442|434|119|366|331|81	995|778	1.68	0.1944304	1	0.91	0.79	1.05	0.83	0.63	1.10
WHS	16	0.312|0.320	309|300|58|316|293|71	667|680	0.20	0.6517749	1	1.04	0.88	1.22	1.08	0.78	1.50
PBCS 1+2	14	0.328|0.336	1019|1016|236|932|933|241	2271|2106	0.69	0.4067724	1	1.04	0.95	1.14	1.08	0.90	1.29

Locus rs4666451 Alleles G|A Chr 2p24.1 Location 19150424 Neighborhood

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.391|0.382	3546|4486|1479|3251|4055|1238	9511|8544	3.16	0.0754977	1	0.96	0.92	1.00	0.93	0.85	1.01
STAGE1-2	18	0.397|0.377	1622|2102|710|1747|2172|628	4434|4547	7.75	0.0053656	1	0.92	0.86	0.98	0.84	0.75	0.95
STAGE2	15	0.397|0.377	1622|2102|710|1747|2172|628	4434|4547	7.75	0.0053656	1	0.92	0.86	0.98	0.84	0.75	0.95
CPSII	21	0.394|0.400	201|256|86|177|288|70	543|535	0.08	0.7737377	1	1.03	0.86	1.23	1.05	0.74	1.50
PBCS1	10	0.409|0.380	176|246|84|257|316|96	506|669	2.10	0.1474606	1	0.88	0.75	1.04	0.78	0.56	1.09
PLCO	11	0.393|0.373	355|474|146|363|462|123	975|948	1.58	0.2090776	1	0.92	0.81	1.05	0.84	0.65	1.10
WHI	8	0.397|0.372	890|1126|394|950|1106|339	2410|2395	6.05	0.0138784	1	0.90	0.83	0.98	0.82	0.69	0.96
STAGE3	19	0.386|0.388	1926|2385|769|1504|1887|610	5080|4001	0.09	0.7680893	1	1.01	0.95	1.07	1.02	0.90	1.15
NHS2	24	0.384|0.385	446|528|178|220|273|87	1152|580	0.01	0.9251257	1	1.01	0.87	1.16	1.01	0.76	1.35
NOR	19	0.363|0.355	201|230|65|214|238|64	496|516	0.15	0.6980461	1	0.96	0.80	1.16	0.93	0.65	1.34
PBCS2	7	0.399|0.411	621|858|268|504|692|247	1747|1443	0.95	0.3297248	1	1.05	0.95	1.16	1.11	0.90	1.35
USRT	11	0.382|0.370	389|452|154|309|358|108	995|775	0.49	0.4858466	1	0.95	0.83	1.09	0.91	0.69	1.19
WHS	17	0.380|0.389	269|317|104|257|326|104	690|687	0.19	0.6599766	1	1.03	0.89	1.21	1.07	0.79	1.45
PBCS 1+2	24	0.402|0.401	795|1103|352|761|1004|343	2250|2108	0.00	0.9465833	1	1.00	0.91	1.09	0.99	0.84	1.18

Locus rs17740709 Alleles A|G Chr 12q21.31 Location 81947471 Neighborhood TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.220|0.214	6450|3688|498|6023|3139|502	10636|9664	2.01	0.1563996	1	0.97	0.92	1.01	0.93	0.85	1.03
NHS	20	0.218|0.212	692|402|48|725|355|65	1142|1145	0.26	0.61038	1	0.96	0.84	1.11	0.93	0.70	1.23
STAGE1-2	23	0.218|0.214	3372|1979|225|3566|1821|305	5576|5692	0.60	0.4372826	1	0.98	0.92	1.04	0.95	0.84	1.08
STAGE2	23	0.218|0.214	2680|1577|177|2841|1466|240	4434|4547	0.38	0.5398783	1	0.98	0.91	1.05	0.96	0.83	1.10
CPSII	12	0.215|0.200	328|197|18|343|170|22	543|535	0.72	0.3961677	1	0.91	0.74	1.13	0.83	0.54	1.27
PBCS1	20	0.242|0.247	282|203|21|383|241|45	506|669	0.09	0.7654517	1	1.03	0.85	1.25	1.06	0.72	1.56
PLCO	18	0.214|0.203	603|326|46|610|291|47	975|948	0.72	0.3954255	1	0.94	0.80	1.09	0.88	0.64	1.19
WHI	23	0.215|0.212	1467|851|92|1505|764|126	2410|2395	0.10	0.7536695	1	0.98	0.89	1.09	0.97	0.80	1.18
STAGE3	9	0.223|0.216	3078|1710|273|2458|1320|197	5061|3975	1.35	0.2455577	1	0.96	0.89	1.03	0.92	0.80	1.06
NHS2	21	0.211|0.207	723|368|59|356|190|23	1150|569	0.07	0.792619	1	0.98	0.82	1.16	0.95	0.68	1.35
NOR	4	0.243|0.205	281|187|27|328|161|25	495|514	4.20	0.0404998	1	0.80	0.65	0.99	0.65	0.42	0.98
PBCS2	14	0.234|0.240	1042|597|112|836|508|91	1751|1435	0.30	0.5842063	1	1.03	0.92	1.16	1.07	0.85	1.34
USRT	8	0.212|0.195	612|339|41|501|250|27	992|778	1.55	0.2132337	1	0.90	0.76	1.06	0.81	0.58	1.13
WHS	12	0.213|0.201	420|219|34|437|211|31	673|679	0.59	0.4411392	1	0.93	0.77	1.12	0.87	0.60	1.25
PBCS 1+2	17	0.236|0.243	1324|799|133|1218|747|136	2256|2101	0.49	0.4849139	1	1.04	0.94	1.14	1.07	0.88	1.30

Locus rs2391406 Alleles T|G Chr 13q33.3 Location 106586873 Neighborhood

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.370|0.364	4275|4832|1520|3852|4575|1220	10627|9647	2.01	0.1567447	1	0.97	0.93	1.01	0.94	0.87	1.02
NHS	19	0.372|0.363	452|529|160|460|538|146	1141|1144	0.43	0.5143213	1	0.96	0.85	1.08	0.92	0.73	1.17
STAGE1-2	19	0.374|0.358	2234|2499|830|2289|2719|675	5563|5683	6.06	0.0138373	1	0.93	0.88	0.99	0.87	0.78	0.97
STAGE2	18	0.374|0.357	1782|1970|670|1829|2181|529	4422|4539	5.89	0.0152441	1	0.93	0.87	0.99	0.86	0.76	0.97
CPSII	3	0.371|0.333	217|240|79|228|251|51	536|530	3.45	0.0632621	1	0.84	0.71	1.01	0.71	0.50	1.02
PBCS1	17	0.387|0.374	195|230|81|242|351|74	506|667	0.45	0.5000706	1	0.94	0.79	1.12	0.89	0.63	1.25
PLCO	8	0.376|0.350	398|416|157|393|445|109	971|947	2.69	0.1009285	1	0.90	0.79	1.02	0.80	0.62	1.04
WHI	20	0.372|0.360	972|1084|353|966|1134|295	2409|2395	1.39	0.2387003	1	0.95	0.88	1.03	0.91	0.77	1.07

STAGE3	13	0.367|0.372	2041|2337|690|1563|1858|545	5068|3966	0.47	0.4946554	1	1.02	0.96	1.09	1.04	0.92	1.18
NHS2	1	0.344|0.386	510|503|148|219|279|86	1161|584	5.82	0.0158058	1	1.19	1.03	1.38	1.43	1.07	1.90
NOR	21	0.366|0.372	207|214|74|201|245|69	495|515	0.08	0.7758132	1	1.03	0.86	1.23	1.05	0.74	1.51
PBCS2	23	0.380|0.382	656|853|236/542|686|203	1745|1431	0.02	0.8752505	1	1.01	0.91	1.12	1.02	0.83	1.25
USRT	21	0.359|0.365	410|454|130/309|368|99	994|776	0.12	0.7329807	1	1.02	0.89	1.18	1.05	0.80	1.38
WHS	1	0.384|0.345	258|313|102/292|280|88	673|660	4.13	0.0421697	1	0.85	0.73	0.99	0.73	0.53	0.99
PBCS 1+2	22	0.381|0.379	851|1079|317/784|1035|277	2247|2096	0.04	0.836186	1	0.99	0.91	1.08	0.98	0.82	1.17

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.159|0.163	7513|2919|235/6829|2540|303	10667|9672	1.07	0.3009646	1	1.03	0.98	1.08	1.06	0.95	1.18
NHS	16	0.158|0.169	808|306|28/810|283|52	1142|1145	0.87	0.3511966	1	1.08	0.92	1.25	1.16	0.85	1.57
STAGE1-2	22	0.156|0.164	3941|1525|106/4028|1461|200	5572|5689	2.45	0.1173932	1	1.06	0.99	1.14	1.12	0.97	1.29
STAGE2	22	0.155|0.162	3133|1219|78/3218|1178|148	4430|4544	1.65	0.1994573	1	1.05	0.97	1.14	1.11	0.95	1.30
CPSII	22	0.173|0.177	368|161|13/366|147|21	542|534	0.07	0.7862091	1	1.03	0.83	1.29	1.06	0.68	1.66
PBCS1	11	0.138|0.156	373|123|8/481|165|22	504|668	1.52	0.2177102	1	1.15	0.92	1.45	1.33	0.84	2.11
PLCO	16	0.156|0.166	688|270|17/661|259|28	975|948	0.76	0.3830785	1	1.08	0.91	1.29	1.17	0.82	1.65
WHI	22	0.155|0.159	1704|665|40/1710|607|77	2409|2394	0.34	0.5609315	1	1.03	0.93	1.15	1.07	0.86	1.33
STAGE3	23	0.162|0.161	3572|1394|128/2801|1080|103	5094|3984	0.01	0.9188316	1	1.00	0.92	1.08	0.99	0.85	1.16
NHS2	12	0.167|0.160	811|332|30/418|149|19	1173|586	0.32	0.5709644	1	0.95	0.78	1.14	0.90	0.61	1.31
NOR	20	0.172|0.177	342|136|17/347|147|17	495|511	0.10	0.7530337	1	1.04	0.83	1.30	1.08	0.68	1.70
PBCS2	20	0.148|0.151	1266|440|38/1023|369|31	1744|1423	0.15	0.6965573	1	1.03	0.89	1.18	1.06	0.80	1.40
USRT	19	0.177|0.172	668|301|25/527|223|21	994|771	0.14	0.7106547	1	0.97	0.81	1.16	0.93	0.65	1.34
WHS	24	0.161|0.160	485|185|18/486|192|15	688|693	0.00	0.974848	1	1.00	0.81	1.22	0.99	0.66	1.50
PBCS 1+2	13	0.146|0.153	1639|563|47/1504|533|53	2249|2090	0.79	0.3755046	1	1.05	0.94	1.19	1.11	0.88	1.41

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.370|0.365	4214|4964|1454/3948|4367|1348	10632|9663	0.97	0.3257485	1	0.98	0.94	1.02	0.96	0.89	1.04
NHS	18	0.382|0.370	429|553|160/475|492|178	1142|1145	0.67	0.4115727	1	0.95	0.85	1.07	0.91	0.72	1.15
STAGE1-2	21	0.380|0.368	2081|2738|750/2321|2552|815	5569|5688	4.00	0.0453871	1	0.95	0.90	1.00	0.90	0.80	1.00
STAGE2	21	0.380|0.367	1652|2185|590/1846|2060|637	4427|4543	3.33	0.0678293	1	0.94	0.89	1.00	0.89	0.79	1.01
CPSII	23	0.377|0.374	216|242|83/205|260|70	541|535	0.02	0.8766975	1	0.99	0.83	1.17	0.97	0.69	1.38
PBCS1	13	0.375|0.353	193|244|67/284|298|87	504|669	1.23	0.2673919	1	0.91	0.77	1.08	0.83	0.59	1.16
PLCO	14	0.371|0.355	371|484|120/395|430|121	975|946	1.11	0.2925605	1	0.93	0.81	1.06	0.87	0.66	1.13
WHI	21	0.385|0.374	872|1215|320/962|1072|359	2407|2393	1.32	0.2501362	1	0.95	0.88	1.03	0.91	0.77	1.07
STAGE3	18	0.359|0.362	2133|2225|705/1628|1817|533	5063|3978	0.22	0.6423297	1	1.01	0.96	1.08	1.03	0.91	1.16
NHS2	13	0.364|0.373	470|516|158/227|268|81	1144|576	0.30	0.5838094	1	1.04	0.90	1.20	1.08	0.81	1.45
NOR	15	0.329|0.316	225|216|55/233|237|44	496|514	0.37	0.5430243	1	0.94	0.78	1.14	0.89	0.61	1.30
PBCS2	4	0.359|0.375	732|784|238/563|671|204	1754|1438	1.71	0.1909305	1	1.07	0.97	1.18	1.14	0.93	1.40
USRT	14	0.371|0.380	405|441|148/303|353|118	994|774	0.34	0.5598592	1	1.04	0.91	1.19	1.08	0.83	1.42
WHS	10	0.356|0.340	301|268|106/302|288|86	675|676	0.64	0.423961	1	0.94	0.81	1.09	0.88	0.65	1.20
PBCS 1+2	18	0.362|0.368	925|1029|304/846|967|291	2258|2104	0.29	0.5883833	1	1.02	0.94	1.12	1.05	0.88	1.25

unadj_rec

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.239|0.218	6217|3775|655/5890|3353|435	10647|9678	27.43	1.63E-07	1	0.72	0.63	0.81
NHS	6	0.244|0.213	660|406|76/703|394|47	1142|1144	7.28	0.0069729	1	0.60	0.41	0.87
STAGE1-2	5	0.238|0.213	3263|1972|341/3506|1947|237	5576|5690	22.01	2.72E-06	1	0.67	0.56	0.79
STAGE2	6	0.236|0.213	2603|1566|265/2803|1553|190	4434|4546	15.07	1.04E-04	1	0.69	0.57	0.83

CPSII	21	0.235|0.222	319|193|31|325|182|28	543|535	0.12	0.7315277	1	0.91	0.54	1.54
PBCS1	8	0.242|0.213	291|185|30|409|234|25	506|668	3.08	0.0791615	1	0.62	0.36	1.06
PLCO	3	0.238|0.215	576|334|65|576|336|36	975|948	7.95	0.004805	1	0.55	0.36	0.84
WHI	7	0.235|0.209	1417|854|139|1493|801|101	2410|2395	6.09	0.0136274	1	0.72	0.55	0.94
STAGE3	2	0.240|0.226	2955|1806|314|2386|1408|197	5075|3991	6.57	0.0103446	1	0.79	0.66	0.95
NHS2	7	0.232|0.226	698|374|81|350|195|33	1153|578	1.08	0.297918	1	0.80	0.53	1.22
NOR	6	0.257|0.215	271|195|30|319|171|25	496|515	0.70	0.4027061	1	0.79	0.46	1.37
PBCS2	7	0.236|0.226	1016|637|94|850|514|66	1747|1430	0.96	0.3264591	1	0.85	0.62	1.18
USRT	15	0.243|0.232	572|357|62|459|275|43	991|777	0.41	0.523679	1	0.88	0.59	1.31
WHS	2	0.245|0.226	398|243|47|408|253|30	688|691	4.05	0.0440679	1	0.62	0.39	0.99
PBCS 1+2	1	0.237|0.222	1306|819|124|1257|746|92	2249|2095	2.89	0.0891028	1	0.79	0.60	1.04

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	2	0.393|0.425	3965|4951|1699|3207|4650|1761	10615|9618	18.89	1.38E-05	1	1.18	1.09	1.27
NHS	3	0.388|0.440	425|541|170|358|563|220	1136|1141	7.47	0.006265	1	1.36	1.09	1.69
STAGE1-2	16	0.401|0.431	2022|2615|919|1821|2814|1036	5556|5671	5.83	0.0157988	1	1.13	1.02	1.24
STAGE2	18	0.404|0.429	1597|2074|749|1463|2251|816	4420|4530	1.77	0.183747	1	1.08	0.97	1.20
CPSII	22	0.378|0.417	220|235|88|178|267|89	543|534	0.04	0.8384707	1	1.03	0.75	1.43
PBCS1	19	0.387|0.393	195|230|81|243|326|100	506|669	0.25	0.6181265	1	0.92	0.67	1.27
PLCO	23	0.420|0.421	324|476|169|315|465|165	969|945	0.00	0.9909615	1	1.00	0.79	1.27
WHI	14	0.407|0.444	858|1133|411|727|1193|462	2402|2382	4.18	0.0407887	1	1.17	1.01	1.35
STAGE3	1	0.385|0.416	1947|2338|780|1386|1836|725	5065|3947	14.05	1.78E-04	1	1.24	1.11	1.38
NHS2	2	0.400|0.442	433|545|197|190|259|124	1175|573	6.10	0.0134816	1	1.37	1.07	1.76
NOR	1	0.380|0.408	184|242|66|180|244|86	492|510	2.31	0.1282403	1	1.31	0.92	1.85
PBCS2	1	0.362|0.398	719|778|240|518|661|231	1737|1410	4.03	0.0447878	1	1.22	1.00	1.49
USRT	16	0.385|0.410	387|443|159|271|371|132	989|774	0.30	0.5832635	1	1.07	0.83	1.38
WHS	1	0.421|0.445	224|330|118|227|301|152	672|680	4.86	0.0275009	1	1.35	1.03	1.77
PBCS 1+2	4	0.368|0.397	910|1006|321|761|987|331	2237|2079	2.08	0.149715	1	1.13	0.96	1.34

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	3	0.159|0.163	7513|2919|235|6829|2540|303	10667|9672	17.03	3.69E-05	1	1.44	1.21	1.71
NHS	4	0.158|0.169	808|306|28|810|283|52	1142|1145	7.40	0.0065373	1	1.89	1.19	3.02
STAGE1-2	1	0.156|0.164	3941|1525|106|4028|1461|200	5572|5689	27.71	1.41E-07	1	1.88	1.48	2.38
STAGE2	2	0.155|0.162	3133|1219|78|3218|1178|148	4430|4544	20.46	6.10E-06	1	1.88	1.42	2.48
CPSII	6	0.173|0.177	368|161|13|366|147|21	542|534	2.07	0.1503527	1	1.67	0.83	3.36
PBCS1	6	0.138|0.156	373|123|8|481|165|22	504|668	3.35	0.0671051	1	2.11	0.93	4.78
PLCO	5	0.156|0.166	688|270|17|661|259|28	975|948	3.08	0.0792945	1	1.72	0.93	3.15
WHI	2	0.155|0.159	1704|665|40|1710|607|77	2409|2394	12.23	0.00047	1	1.97	1.34	2.90
STAGE3	20	0.162|0.161	3572|1394|128|2801|1080|103	5094|3984	0.05	0.8274885	1	1.03	0.79	1.34
NHS2	12	0.167|0.160	811|332|30|418|149|19	1173|586	0.68	0.4107414	1	1.28	0.71	2.29
NOR	22	0.172|0.177	342|136|17|347|147|17	495|511	0.01	0.9248242	1	0.97	0.49	1.92
PBCS2	24	0.148|0.151	1266|440|38|1023|369|31	1744|1423	-	0.9993835	1	1.00	0.62	1.62
USRT	19	0.177|0.172	668|301|25|527|223|21	994|771	0.07	0.7849397	1	1.09	0.60	1.95
WHS	16	0.161|0.160	485|185|18|486|192|15	688|693	0.30	0.5825651	1	0.82	0.41	1.65
PBCS 1+2	8	0.146|0.153	1639|563|47|1504|533|53	2249|2090	0.96	0.3278597	1	1.22	0.82	1.81

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	4	0.426|0.414	3559|5120|1981|3270|4814|1604	10660|9688	14.37	1.51E-04	1	0.87	0.81	0.93

NHS	8	0.425|0.431	405|502|233|349|605|191	1140|1145	5.34	0.0208839	1	0.78	0.63	0.96
STAGE1-2	6	0.439|0.420	1803|2653|1118|1861|2884|947	5574|5692	22.00	2.72E-06	1	0.80	0.72	0.88
STAGE2	4	0.442|0.417	1398|2151|885|1512|2279|756	4434|4547	16.70	4.38E-05	1	0.80	0.72	0.89
CPSII	1	0.475|0.415	158|254|131|184|258|93	543|535	7.44	0.0063743	1	0.66	0.49	0.89
PBCS1	1	0.415|0.369	186|220|100|264|316|89	506|669	8.91	0.002843	1	0.62	0.46	0.85
PLCO	14	0.419|0.411	324|485|166|320|476|152	975|948	0.34	0.5583205	1	0.93	0.73	1.18
WHI	11	0.450|0.433	730|1192|488|744|1229|422	2410|2395	5.41	0.0200467	1	0.84	0.73	0.97
STAGE3	12	0.412|0.406	1756|2467|864|1410|1932|657	5087|3999	0.50	0.4815054	1	0.96	0.86	1.07
NHS2	17	0.418|0.427	394|568|202|192|283|107	1164|582	0.28	0.5946674	1	1.07	0.83	1.39
NOR	20	0.390|0.400	186|231|77|187|245|84	494|516	0.09	0.7639226	1	1.05	0.75	1.48
PBCS2	22	0.400|0.394	625|849|274|528|682|223	1748|1433	0.01	0.9302224	1	0.99	0.82	1.20
USRT	10	0.439|0.415	313|490|192|268|373|136	995|777	0.93	0.3348225	1	0.89	0.70	1.13
WHS	12	0.413|0.407	238|329|119|235|349|107	686|691	0.87	0.3509248	1	0.87	0.66	1.16
PBCS 1+2	3	0.403|0.386	811|1069|373|791|996|312	2253|2099	2.34	0.1257495	1	0.88	0.75	1.04

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.370|0.364	4275|4832|1520|3852|4575|1220	10627|9647	11.88	0.0005689	1	0.87	0.80	0.94
NHS	17	0.372|0.363	452|529|160|460|538|146	1141|1144	0.78	0.3763414	1	0.90	0.70	1.14
STAGE1-2	4	0.374|0.358	2234|2499|830|2289|2719|675	5563|5683	22.45	2.16E-06	1	0.77	0.69	0.86
STAGE2	1	0.374|0.357	1782|1970|670|1829|2181|529	4422|4539	23.63	1.17E-06	1	0.74	0.65	0.83
CPSII	2	0.371|0.333	217|240|79|228|251|51	536|530	6.51	0.0107011	1	0.62	0.42	0.90
PBCS1	2	0.387|0.374	195|230|81|242|351|74	506|667	6.06	0.0138501	1	0.65	0.47	0.92
PLCO	2	0.376|0.350	398|416|157|393|445|109	971|947	8.71	0.0031623	1	0.67	0.52	0.88
WHI	10	0.372|0.360	972|1084|353|966|1134|295	2409|2395	5.62	0.0177928	1	0.82	0.69	0.97
STAGE3	21	0.367|0.372	2041|2337|690|1563|1858|545	5068|3966	0.03	0.8616058	1	1.01	0.90	1.14
NHS2	4	0.344|0.386	510|503|148|219|279|86	1161|584	1.31	0.2524409	1	1.18	0.89	1.57
NOR	10	0.366|0.372	207|214|74|201|245|69	495|515	0.50	0.4795625	1	0.88	0.62	1.25
PBCS2	14	0.380|0.382	656|853|236|542|686|203	1745|1431	0.29	0.5909579	1	1.06	0.86	1.29
USRT	21	0.359|0.365	410|454|130|309|368|99	994|776	0.04	0.8418715	1	0.97	0.73	1.29
WHS	11	0.384|0.345	258|313|102|292|280|88	673|660	0.91	0.3412424	1	0.86	0.63	1.17
PBCS 1+2	10	0.381|0.379	851|1079|317|784|1035|277	2247|2096	0.73	0.39259	1	0.93	0.78	1.10

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.221|0.241	6483|3665|524|5603|3498|581	10672|9682	11.76	0.0006038	1	1.24	1.10	1.40
NHS	1	0.215|0.249	693|402|44|652|415|78	1139|1145	9.82	0.001724	1	1.82	1.25	2.66
STAGE1-2	2	0.216|0.243	3402|1924|241|3288|2028|370	5567|5686	25.99	3.43E-07	1	1.54	1.30	1.82
STAGE2	3	0.216|0.242	2709|1522|197|2636|1613|292	4428|4541	17.07	3.60E-05	1	1.48	1.23	1.78
CPSII	12	0.225|0.236	325|192|26|315|186|33	543|534	1.01	0.3156603	1	1.31	0.77	2.22
PBCS1	7	0.217|0.263	308|173|23|362|256|47	504|665	3.19	0.0739202	1	1.59	0.95	2.66
PLCO	7	0.223|0.238	577|359|37|546|353|49	973|948	2.10	0.1477362	1	1.38	0.89	2.13
WHI	4	0.212|0.239	1499|798|111|1413|818|163	2408|2394	10.79	0.0010206	1	1.51	1.18	1.94
STAGE3	14	0.226|0.237	3081|1743|283|2314|1473|210	5107|3997	0.36	0.5475275	1	0.95	0.79	1.14
NHS2	9	0.227|0.235	712|397|69|338|219|28	1178|585	0.86	0.3530535	1	0.81	0.51	1.27
NOR	7	0.246|0.241	284|178|33|293|191|28	495|512	0.63	0.4256534	1	0.81	0.48	1.36
PBCS2	13	0.223|0.231	1070|586|98|847|518|74	1754|1439	0.31	0.57964	1	0.92	0.67	1.25
USRT	3	0.216|0.253	604|350|39|430|293|49	993|772	5.37	0.0205108	1	1.66	1.08	2.55
WHS	4	0.233|0.228	411|232|44|406|252|31	687|689	2.42	0.1195371	1	0.69	0.43	1.10
PBCS 1+2	16	0.221|0.241	1378|757|121|1210|771|122	2256|2103	0.40	0.5290376	1	1.09	0.84	1.41

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	7	0.407|0.429	3779|5060|1804|3184|4660|1808	10643|9652	10.98	0.0009192	1	1.13	1.05	1.21
NHS	18	0.392|0.435	429|513|186|350|583|203	1128|1136	0.76	0.3839955	1	1.10	0.89	1.37
STAGE1-2	15	0.404|0.426	1986|2660|914|1884|2752|1046	5560|5682	7.58	0.0059101	1	1.15	1.04	1.26
STAGE2	14	0.406|0.424	1557|2147|728|1534|2169|843	4432|4546	6.97	0.0082798	1	1.16	1.04	1.29
CPSII	11	0.427|0.399	178|265|99|193|257|85	542|535	1.07	0.2999003	1	0.85	0.61	1.16
PBCS1	5	0.410|0.460	174|249|83|193|337|139	506|669	3.60	0.0578813	1	1.34	0.99	1.81
PLCO	10	0.408|0.422	339|475|160|321|454|173	974|948	1.11	0.2913874	1	1.14	0.90	1.44
WHI	9	0.400|0.420	866|1158|386|827|1121|446	2410|2394	5.73	0.0166977	1	1.20	1.03	1.39
STAGE3	3	0.411|0.433	1793|2403|891|1302|1913|765	5087|3980	4.35	0.0369493	1	1.12	1.01	1.25
NHS2	5	0.399|0.434	436|540|199|188|281|111	1175|580	1.29	0.2552468	1	1.16	0.90	1.50
NOR	5	0.438|0.413	156|242|95|177|248|88	493|513	0.76	0.3845116	1	0.87	0.63	1.20
PBCS2	21	0.424|0.435	593|833|328|457|711|271	1754|1439	0.01	0.9240296	1	1.01	0.84	1.21
USRT	2	0.388|0.445	374|467|151|252|358|166	992|776	11.26	0.0007902	1	1.52	1.19	1.93
WHS	14	0.414|0.426	234|321|118|228|315|129	673|672	0.62	0.4309422	1	1.12	0.85	1.47
PBCS 1+2	7	0.421|0.443	767|1079|410|648|1043|407	2256|2098	1.07	0.3006457	1	1.08	0.93	1.26

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	8	0.209|0.226	6650|3528|455|5797|3380|500	10633|9677	8.91	0.0028354	1	1.22	1.07	1.39
NHS	7	0.204|0.244	719|381|42|654|424|67	1142|1145	5.95	0.0146986	1	1.63	1.10	2.42
STAGE1-2	8	0.207|0.230	3473|1895|208|3380|2006|303	5576|5689	16.56	4.71E-05	1	1.45	1.21	1.74
STAGE2	10	0.208|0.226	2754|1514|166|2726|1582|236	4434|4544	11.03	0.0008967	1	1.41	1.15	1.73
CPSII	3	0.196|0.218	343|187|13|329|179|27	543|535	5.31	0.0212374	1	2.17	1.11	4.25
PBCS1	9	0.210|0.222	310|179|17|406|228|34	506|668	2.07	0.1498294	1	1.54	0.85	2.79
PLCO	20	0.220|0.235	599|323|53|552|346|50	975|948	0.02	0.8749368	1	0.97	0.65	1.44
WHI	6	0.206|0.225	1502|825|83|1439|829|125	2410|2393	9.18	0.002449	1	1.55	1.16	2.05
STAGE3	23	0.210|0.222	3177|1634|247|2416|1374|197	5058|3987	0.02	0.8996409	1	1.01	0.84	1.23
NHS2	21	0.206|0.227	730|346|61|342|202|29	1137|573	0.07	0.7905007	1	0.94	0.60	1.48
NOR	14	0.210|0.233	310|164|22|301|185|27	496|513	0.37	0.5408926	1	1.20	0.67	2.13
PBCS2	20	0.208|0.216	1111|557|86|891|478|72	1754|1441	0.01	0.9035072	1	1.02	0.74	1.41
USRT	9	0.218|0.221	607|344|45|476|258|43	996|777	0.96	0.3283836	1	1.24	0.81	1.90
WHS	10	0.214|0.222	419|223|33|406|251|26	675|683	0.96	0.328039	1	0.77	0.46	1.30
PBCS 1+2	13	0.208|0.218	1421|735|103|1298|706|106	2259|2110	0.52	0.4725421	1	1.11	0.84	1.46

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% (	hom OR 95% CI_u
STAGE1-3	9	0.355|0.369	4448|4846|1351|3883|4411|1360	10645|9654	8.53	0.0035003	1	1.13	1.04	1.22
NHS	2	0.356|0.381	459|552|130|447|523|175	1141|1145	7.48	0.0062356	1	1.40	1.10	1.79
STAGE1-2	3	0.348|0.374	2351|2569|655|2284|2560|846	5575|5690	23.72	1.11E-06	1	1.31	1.18	1.46
STAGE2	5	0.346|0.372	1892|2017|525|1837|2037|671	4434|4545	16.61	4.59E-05	1	1.29	1.14	1.46
CPSII	14	0.350|0.339	220|266|57|238|231|66	543|535	0.90	0.3422902	1	1.20	0.82	1.75
PBCS1	10	0.345|0.356	216|231|59|287|287|94	506|668	1.48	0.2241529	1	1.24	0.88	1.76
PLCO	4	0.333|0.374	437|427|111|378|430|140	975|948	4.85	0.0276773	1	1.35	1.03	1.76
WHI	5	0.350|0.382	1019|1093|298|934|1089|371	2410|2394	9.83	0.0017187	1	1.30	1.10	1.53
STAGE3	7	0.362|0.363	2098|2281|696|1600|1852|514	5075|3966	1.09	0.2959918	1	0.94	0.83	1.06
NHS2	23	0.367|0.365	482|523|170|238|257|82	1175|577	0.02	0.8856049	1	0.98	0.74	1.30
NOR	11	0.372|0.371	200|212|75|200|232|70	487|502	0.42	0.5174658	1	0.89	0.63	1.27
PBCS2	12	0.349|0.349	744|779|218|599|660|169	1741|1428	0.35	0.556853	1	0.94	0.76	1.16
USRT	14	0.374|0.366	391|459|141|311|366|102	991|779	0.47	0.491228	1	0.91	0.69	1.19
WHS	21	0.361|0.382	281|308|92|252|337|91	681|680	0.00	0.9451703	1	0.99	0.72	1.35
PBCS 1+2	22	0.348|0.351	959|1006|277|885|946|263	2242|2094	0.04	0.8383971	1	1.02	0.85	1.22

Locus	Alleles	Chr	Location	Neighborhood							
rs1274466	T|C	10p11.21		34510210	PAR3						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	10	0.449|0.432	3262|5237|2175|3133|4725|1825	10674|9683	7.52	0.0061035	1	0.91	0.85	0.97	
NHS	13	0.470|0.439	312|586|244|357|569|218	1142|1144	1.89	0.1690577	1	0.87	0.71	1.06	
STAGE1-2	12	0.456|0.430	1656|2757|1163|1852|2785|1053	5576|5690	9.85	0.0016964	1	0.86	0.79	0.95	
STAGE2	13	0.452|0.427	1344|2171|919|1495|2216|835	4434|4546	7.94	0.004826	1	0.86	0.78	0.96	
CPSII	9	0.471|0.436	152|271|120|172|259|104	543|535	1.16	0.2817783	1	0.85	0.63	1.14	
PBCS1	3	0.483|0.446	138|247|121|200|340|128	506|668	3.89	0.0485896	1	0.75	0.57	1.00	
PLCO	6	0.449|0.419	298|478|199|319|464|165	975|948	2.83	0.0925923	1	0.82	0.65	1.03	
WHI	19	0.443|0.424	756|1175|479|804|1153|438	2410|2395	1.96	0.1614906	1	0.90	0.78	1.04	
STAGE3	15	0.442|0.436	1606|2484|1013|1282|1942|774	5103|3998	0.34	0.5580876	1	0.97	0.87	1.08	
NHS2	14	0.441|0.435	379|559|240|186|286|110	1178|582	0.53	0.4663379	1	0.91	0.71	1.17	
NOR	16	0.391|0.401	184|235|76|188|240|86	495|514	0.36	0.5511497	1	1.11	0.79	1.55	
PBCS2	9	0.457|0.441	518|863|368|456|695|287	1749|1438	0.57	0.4517903	1	0.94	0.79	1.11	
USRT	17	0.454|0.444	295|489|205|243|378|156	989|777	0.11	0.7363964	1	0.96	0.76	1.21	
WHS	13	0.423|0.446	230|338|124|209|343|135	692|687	0.68	0.4104031	1	1.12	0.85	1.47	
PBCS 1+2	2	0.463|0.442	656|1106|488|655|1033|413	2250|2101	2.73	0.0984172	1	0.88	0.76	1.02	
Locus	Alleles	Chr	Location	Neighborhood							
rs2067980	A|G	5p12		45018074							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	11	0.159|0.173	7544|2828|285|6652|2704|318	10657|9674	6.62	0.0100954	1	1.24	1.05	1.45	
NHS	9	0.151|0.178	814|311|17|769|342|33	1142|1144	5.21	0.0225102	1	1.97	1.09	3.55	
STAGE1-2	7	0.151|0.174	4007|1455|114|3905|1597|189	5576|5691	17.54	2.82E-05	1	1.65	1.30	2.08	
STAGE2	7	0.151|0.172	3193|1144|97|3136|1255|156	4434|4547	12.67	0.0003709	1	1.59	1.23	2.05	
CPSII	13	0.159|0.164	383|147|13|377|140|18	543|535	0.91	0.3405005	1	1.42	0.69	2.93	
PBCS1	17	0.191|0.227	335|149|22|400|234|35	506|669	0.49	0.4849978	1	1.21	0.70	2.10	
PLCO	12	0.144|0.166	714|241|20|658|265|25	975|948	0.72	0.3955333	1	1.29	0.71	2.34	
WHI	3	0.143|0.161	1761|607|42|1701|616|78	2410|2395	11.31	0.0007715	1	1.90	1.30	2.77	
STAGE3	18	0.169|0.172	3537|1374|171|2747|1110|129	5082|3986	0.12	0.7341978	1	0.96	0.76	1.21	
NHS2	11	0.170|0.156	810|306|44|411|145|17	1160|573	0.77	0.3798933	1	0.78	0.44	1.37	
NOR	15	0.142|0.135	364|125|8|382|127|6	497|515	0.37	0.5449327	1	0.72	0.25	2.09	
PBCS2	16	0.190|0.192	1158|519|73|941|441|55	1750|1437	0.24	0.6225991	1	0.91	0.64	1.31	
USRT	7	0.155|0.177	713|256|26|530|216|29	995|775	1.84	0.1744837	1	1.45	0.85	2.48	
WHS	18	0.153|0.164	492|168|20|483|181|22	680|686	0.08	0.7759873	1	1.09	0.59	2.02	
PBCS 1+2	24	0.190|0.203	1493|667|95|1341|672|90	2255|2103	0.01	0.9130455	1	1.02	0.76	1.36	
Locus	Alleles	Chr	Location	Neighborhood							
rs10850145	C|T	12q24.13		112428512							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	12	0.095|0.106	8763|1844|91|7754|1837|115	10698|9706	5.69	0.0170869	1	1.40	1.06	1.84	
NHS	5	0.086|0.110	951|186|5|912|215|18	1142|1145	7.39	0.0065658	1	3.63	1.34	9.82	
STAGE1-2	19	0.090|0.108	4627|897|52|4535|1085|70	5576|5690	2.33	0.1269501	1	1.32	0.92	1.90	
STAGE2	22	0.091|0.107	3676|711|47|3623|870|52	4434|4545	0.15	0.7027168	1	1.08	0.73	1.61	
CPSII	16	0.099|0.107	444|90|9|426|103|6	543|535	0.56	0.4525809	1	0.67	0.24	1.90	
PBCS1	15	0.094|0.113	417|83|6|523|141|5	506|669	0.60	0.4397202	1	0.63	0.19	2.07	
PLCO	15	0.077|0.094	832|135|8|775|167|6	975|948	0.23	0.6285283	1	0.77	0.27	2.23	
WHI	18	0.094|0.111	1983|403|24|1899|459|35	2410|2393	2.16	0.1420172	1	1.48	0.88	2.49	
STAGE3	4	0.100|0.105	4136|948|39|3221|752|45	5123|4018	3.18	0.0744547	1	1.48	0.96	2.27	
NHS2	1	0.103|0.108	947|218|12|474|96|15	1177|585	6.18	0.0129309	1	2.55	1.19	5.49	
NOR	23	0.081|0.090	414|80|0|426|82|5	494|513							
PBCS2	10	0.104|0.108	1412|338|15|1152|282|16	1765|1450	0.54	0.4640653	1	1.30	0.64	2.64	

USRT	23	0.105|0.106	799|184|12|622|146|9	995|777	0.01	0.9265977	1	0.96	0.40	2.29
WHS	24	0.092|0.105	564|128|0|547|146|0	692|693	-	1	1	1.00	1.00	1.00
PBCS 1+2	21	0.102|0.110	1829|420|21|1673|423|21	2270|2117	0.05	0.8202303	1	1.07	0.58	1.97

Locus	Alleles	Chr	Location	Neighborhood						
rs3817198	T|C	11p15.5		1865582 LSP1						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	13	0.323|0.333	4881|4670|1113|4350|4237|1105	10664|9692	4.86	0.0274601	1	1.10	1.01	1.21
NHS	15	0.318|0.330	524|510|108|514|505|125	1142|1144	1.35	0.2455947	1	1.17	0.90	1.54
STAGE1-2	18	0.326|0.341	2533|2438|597|2485|2518|677	5568|5680	4.01	0.0451938	1	1.13	1.00	1.27
STAGE2	16	0.328|0.344	2009|1928|489|1971|2013|552	4426|4536	2.74	0.0977529	1	1.12	0.98	1.27
CPSII	20	0.334|0.345	243|231|64|235|227|70	538|532	0.39	0.5328939	1	1.12	0.78	1.61
PBCS1	14	0.319|0.333	229|228|47|292|299|71	504|662	0.62	0.4324211	1	1.17	0.79	1.72
PLCO	11	0.335|0.344	440|417|118|397|449|101	975|947	0.98	0.3214627	1	0.87	0.65	1.15
WHI	12	0.326|0.346	1097|1052|260|1047|1038|310	2409|2395	5.31	0.0211715	1	1.23	1.03	1.46
STAGE3	10	0.320|0.322	2347|2233|516|1859|1722|429	5096|4010	0.79	0.3737143	1	1.06	0.93	1.22
NHS2	18	0.320|0.314	538|516|117|285|246|64	1171|595	0.25	0.6164422	1	1.09	0.79	1.50
NOR	4	0.262|0.290	269|194|33|258|215|42	496|515	0.83	0.3622556	1	1.25	0.78	2.00
PBCS2	5	0.330|0.339	789|789|189|634|637|171	1767|1442	1.08	0.2993151	1	1.12	0.90	1.40
USRT	8	0.338|0.317	442|434|119|366|331|81	995|778	1.05	0.3064097	1	0.86	0.63	1.15
WHS	8	0.312|0.320	309|300|58|316|293|71	667|680	1.18	0.2763964	1	1.22	0.85	1.76
PBCS 1+2	5	0.328|0.336	1019|1016|236|932|933|241	2271|2106	1.24	0.2646205	1	1.11	0.92	1.35

Locus	Alleles	Chr	Location	Neighborhood						
rs3134615	G|T	1p34.2		40134653 TRIT1,MYCL1						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	14	0.228|0.246	6374|3763|552|5488|3630|568	10689|9686	4.79	0.0285867	1	1.14	1.01	1.29
NHS	10	0.220|0.263	690|402|50|617|454|74	1142|1145	4.85	0.0277245	1	1.51	1.04	2.18
STAGE1-2	14	0.227|0.250	3315|1996|265|3183|2170|339	5576|5692	8.04	0.0045798	1	1.27	1.08	1.50
STAGE2	15	0.228|0.247	2625|1594|215|2566|1716|265	4434|4547	4.25	0.0391554	1	1.21	1.01	1.46
CPSII	4	0.215|0.236	326|200|17|313|192|30	543|535	3.96	0.0464739	1	1.84	1.00	3.37
PBCS1	13	0.226|0.238	299|185|22|387|245|37	506|669	0.85	0.3579284	1	1.29	0.75	2.21
PLCO	17	0.236|0.258	578|334|63|516|375|57	975|948	0.17	0.6841156	1	0.93	0.64	1.34
WHI	16	0.228|0.248	1422|875|113|1350|904|141	2410|2395	3.45	0.063401	1	1.27	0.99	1.64
STAGE3	19	0.229|0.240	3059|1767|287|2305|1463|230	5113|3998	0.08	0.7748106	1	1.03	0.86	1.23
NHS2	16	0.225|0.235	724|388|73|341|209|32	1185|582	0.31	0.5800905	1	0.89	0.58	1.36
NOR	18	0.232|0.253	292|179|26|284|200|30	497|514	0.18	0.6740752	1	1.12	0.65	1.93
PBCS2	18	0.226|0.231	1063|591|102|854|504|81	1756|1439	0.05	0.8277884	1	0.97	0.72	1.31
USRT	6	0.240|0.246	567|373|51|445|276|52	991|773	1.97	0.1600682	1	1.33	0.89	1.98
WHS	22	0.224|0.249	413|236|35|381|274|35	684|690	0.00	0.9700835	1	0.99	0.61	1.60
PBCS 1+2	23	0.226|0.233	1362|776|124|1241|746|117	2262|2104	0.01	0.909112	1	1.02	0.78	1.32

Locus	Alleles	Chr	Location	Neighborhood						
rs12608723	A|G	19q13.11		38508973						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	15	0.136|0.128	7995|2464|224|7377|2145|166	10683|9688	3.98	0.0461642	1	0.81	0.66	1.00
NHS	11	0.153|0.123	819|296|27|877|252|15	1142|1144	3.51	0.0608462	1	0.55	0.29	1.04
STAGE1-2	17	0.143|0.126	4103|1351|122|4355|1242|94	5576|5691	4.31	0.0379622	1	0.75	0.57	0.99
STAGE2	17	0.140|0.126	3284|1055|95|3478|990|79	4434|4547	1.94	0.1637433	1	0.81	0.60	1.09
CPSII	15	0.140|0.120	398|138|7|417|108|10	543|535	0.58	0.4447027	1	1.46	0.55	3.86
PBCS1	16	0.153|0.129	364|129|13|510|146|13	506|669	0.52	0.4701128	1	0.75	0.35	1.64
PLCO	21	0.132|0.124	738|216|21|732|196|20	975|948	0.00	0.9465858	1	0.98	0.53	1.82
WHI	15	0.141|0.128	1784|572|54|1819|540|36	2410|2395	3.56	0.0593621	1	0.67	0.44	1.02
STAGE3	13	0.129|0.132	3894|1116|102|3022|909|72	5112|4003	0.46	0.4959162	1	0.90	0.66	1.22

NHS2	20	0.127|0.122	907|259|21|453|118|12	1187|583	0.18	0.6725248	1	1.17	0.57	2.39
NOR	21	0.128|0.167	380|103|12|356|148|12	495|516	0.01	0.9179541	1	0.96	0.43	2.15
PBCS2	6	0.124|0.118	1344|368|32|1120|300|20	1744|1440	0.98	0.3230629	1	0.75	0.43	1.32
USRT	18	0.138|0.142	736|239|17|573|191|15	992|779	0.11	0.7397331	1	1.13	0.56	2.27
WHS	6	0.135|0.130	527|147|20|520|152|13	694|685	1.43	0.2319044	1	0.65	0.32	1.32
PBCS 1+2	6	0.130|0.120	1706|494|45|1630|440|33	2245|2103	1.17	0.2798722	1	0.78	0.50	1.23

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	16	0.391|0.382	3546|4486|1479|3251|4055|1238	9511|8544	3.96	0.0465612	1	0.92	0.85	1.00
STAGE1-2	13	0.397|0.377	1622|2102|710|1747|2172|628	4434|4547	8.58	0.0033985	1	0.84	0.75	0.94
STAGE2	11	0.397|0.377	1622|2102|710|1747|2172|628	4434|4547	8.58	0.0033985	1	0.84	0.75	0.94
CPSII	7	0.394|0.400	201|256|86|177|288|70	543|535	1.65	0.1988009	1	0.80	0.57	1.12
PBCS1	11	0.409|0.380	176|246|84|257|316|96	506|669	1.13	0.288776	1	0.84	0.61	1.16
PLCO	9	0.393|0.373	355|474|146|363|462|123	975|948	1.60	0.2062669	1	0.85	0.65	1.10
WHI	13	0.397|0.372	890|1126|394|950|1106|339	2410|2395	4.47	0.0344341	1	0.84	0.72	0.99
STAGE3	22	0.386|0.388	1926|2385|769|1504|1887|610	5080|4001	0.02	0.8863773	1	1.01	0.90	1.13
NHS2	22	0.384|0.385	446|528|178|220|273|87	1152|580	0.06	0.8054664	1	0.97	0.73	1.28
NOR	19	0.363|0.355	201|230|65|214|238|64	496|516	0.11	0.7379095	1	0.94	0.65	1.36
PBCS2	2	0.399|0.411	621|858|268|504|692|247	1747|1443	1.84	0.174679	1	1.14	0.94	1.38
USRT	11	0.382|0.370	389|452|154|309|358|108	995|775	0.82	0.3647961	1	0.88	0.68	1.15
WHS	23	0.380|0.389	269|317|104|257|326|104	690|687	0.00	0.9727958	1	1.01	0.75	1.35
PBCS 1+2	19	0.402|0.401	795|1103|352|761|1004|343	2250|2108	0.32	0.5721524	1	1.05	0.89	1.23

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	17	0.384|0.372	4045|4861|1609|3800|4343|1365	10515|9508	3.53	0.0602546	1	0.93	0.86	1.00
NHS	19	0.400|0.365	403|541|178|474|476|171	1122|1121	0.16	0.6901133	1	0.95	0.76	1.20
STAGE1-2	11	0.399|0.369	1839|2287|833|1982|2203|705	4959|4890	10.59	0.0011378	1	0.83	0.75	0.93
STAGE2	8	0.398|0.371	1436|1746|655|1508|1727|534	3837|3769	12.14	0.0004923	1	0.80	0.71	0.91
CPSII	17	0.387|0.373	199|251|79|202|249|70	529|521	0.48	0.4867017	1	0.88	0.62	1.25
PLCO	16	0.378|0.376	379|431|146|373|394|147	956|914	0.23	0.6295333	1	1.06	0.83	1.36
WHI	1	0.409|0.368	858|1064|430|933|1084|317	2352|2334	19.32	1.11E-05	1	0.70	0.60	0.82
STAGE3	16	0.372|0.377	2013|2359|714|1563|1857|577	5086|3997	0.29	0.5903997	1	1.03	0.92	1.16
NHS2	3	0.371|0.396	475|529|171|222|272|99	1175|593	1.40	0.2372417	1	1.18	0.90	1.54
NOR	8	0.364|0.345	202|227|67|221|233|61	496|515	0.63	0.4265439	1	0.86	0.59	1.25
PBCS2	4	0.368|0.364	706|782|248|568|669|183	1736|1420	1.30	0.2550638	1	0.89	0.72	1.09
USRT	5	0.393|0.403	356|496|143|283|364|132	995|779	2.21	0.1372782	1	1.22	0.94	1.57
WHS	5	0.362|0.379	274|325|85|269|319|102	684|690	1.62	0.2029214	1	1.22	0.90	1.67
PBCS 1+2	9	0.367|0.364	899|997|310|823|952|266	2206|2041	0.94	0.3321725	1	0.92	0.77	1.09

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	18	0.259|0.279	3047|2125|374|2387|1867|353	5546|4607	3.19	0.0738758	1	1.15	0.99	1.33
STAGE3	6	0.259|0.277	2791|1931|347|2070|1609|297	5069|3976	1.31	0.2518169	1	1.10	0.94	1.29
NHS2	10	0.255|0.277	637|430|76|301|228|45	1143|574	0.83	0.3631958	1	1.19	0.81	1.75
NOR	13	0.303|0.282	239|213|44|265|210|40	496|515	0.40	0.5249257	1	0.87	0.55	1.35
PBCS2	17	0.259|0.276	969|667|121|737|605|94	1757|1436	0.15	0.7022729	1	0.95	0.72	1.25
USRT	1	0.236|0.290	575|373|49|395|307|71	997|773	12.56	0.0003935	1	1.96	1.34	2.85
WHS	9	0.268|0.260	371|248|57|372|259|47	676|678	1.07	0.3000917	1	0.81	0.54	1.21
PBCS 1+2	11	0.259|0.281	1225|861|148|1054|863|150	2234|2067	0.67	0.4147939	1	1.10	0.87	1.40

Locus	Alleles	Chr	Location	Neighborhood							
rs17740709	A|G	12q21.31		81947471 TMTC2							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	19	0.220|0.214	6450|3688|498/6023|3139|502	10636|9664	2.84	0.0920764	1	1.12	0.98	1.27	
NHS	12	0.218|0.212	692|402|48/725|355|65	1142|1145	2.64	0.103958	1	1.37	0.94	2.01	
STAGE1-2	10	0.218|0.214	3372|1979|225/3566|1821|305	5576|5692	11.00	0.0009096	1	1.35	1.13	1.61	
STAGE2	12	0.218|0.214	2680|1577|177/2841|1466|240	4434|4547	8.39	0.003774	1	1.34	1.10	1.63	
CPSII	18	0.215|0.200	328|197|18/343|170|22	543|535	0.48	0.4887008	1	1.25	0.66	2.36	
PBCS1	4	0.242|0.247	282|203|21/383|241|45	506|669	3.61	0.0575448	1	1.67	0.98	2.83	
PLCO	19	0.214|0.203	603|326|46/610|291|47	975|948	0.06	0.8063622	1	1.05	0.69	1.60	
WHI	8	0.215|0.212	1467|851|92/1505|764|126	2410|2395	5.78	0.0162149	1	1.40	1.06	1.84	
STAGE3	8	0.223|0.216	3078|1710|273/2458|1320|197	5061|3975	0.87	0.3517699	1	0.91	0.76	1.10	
NHS2	8	0.211|0.207	723|368|59/356|190|23	1150|569	0.99	0.3191574	1	0.78	0.48	1.27	
NOR	17	0.243|0.205	281|187|27/328|161|25	495|514	0.18	0.6713544	1	0.89	0.51	1.55	
PBCS2	23	0.234|0.240	1042|597|112/836|508|91	1751|1435	0.00	0.9496852	1	0.99	0.74	1.32	
USRT	13	0.212|0.195	612|339|41/501|250|27	992|778	0.52	0.4715914	1	0.83	0.51	1.37	
WHS	17	0.213|0.201	420|219|34/437|211|31	673|679	0.17	0.6759027	1	0.90	0.55	1.48	
PBCS 1+2	12	0.236|0.243	1324|799|133/1218|747|136	2256|2101	0.63	0.4285356	1	1.10	0.86	1.41	
Locus	Alleles	Chr	Location	Neighborhood							
rs724244	C|T	3p24.1		27217157 NEK10							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	20	0.261|0.275	5213|3644|662/4497|3397|649	9519|8543	2.76	0.0966637	1	1.10	0.98	1.23	
STAGE1-2	9	0.252|0.281	2473|1688|272/2354|1826|363	4433|4543	11.74	0.0006124	1	1.33	1.13	1.56	
STAGE2	9	0.252|0.281	2473|1688|272/2354|1826|363	4433|4543	11.74	0.0006124	1	1.33	1.13	1.56	
CPSII	8	0.247|0.273	309|198|35/287|202|45	542|534	1.52	0.2182402	1	1.33	0.84	2.11	
PBCS1	18	0.246|0.265	293|177|36/368|245|54	506|667	0.39	0.5317012	1	1.15	0.74	1.78	
PLCO	1	0.230|0.291	569|364|42/481|381|85	975|947	16.96	3.81E-05	1	2.19	1.50	3.21	
WHI	20	0.263|0.283	1302|949|159/1218|998|179	2410|2395	1.41	0.2349149	1	1.14	0.92	1.43	
STAGE3	9	0.269|0.268	2740|1960|390/2144|1572|286	5090|4002	0.87	0.3521739	1	0.93	0.79	1.09	
NHS2	19	0.270|0.283	638|417|105/302|231|49	1160|582	0.19	0.6609461	1	0.92	0.65	1.32	
NOR	9	0.248|0.264	276|192|27/278|204|34	495|516	0.57	0.448816	1	1.22	0.73	2.06	
PBCS2	3	0.273|0.261	926|696|131/778|567|92	1753|1437	1.39	0.238022	1	0.85	0.64	1.12	
USRT	22	0.273|0.267	524|397|73/418|302|56	994|776	0.01	0.9184001	1	0.98	0.68	1.41	
WHS	20	0.266|0.274	376|258|54/368|268|55	688|691	0.01	0.9393068	1	1.02	0.69	1.50	
PBCS 1+2	17	0.267|0.262	1219|869|167/1145|811|146	2255|2102	0.35	0.5568183	1	0.93	0.74	1.18	
Locus	Alleles	Chr	Location	Neighborhood							
rs2303659	G|A	11q24.3		129326474 PRDM10							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	21	0.035|0.028	9926|718|10/9156|508|14	10654|9678	1.11	0.2921125	1	1.54	0.68	3.47	
NHS	22	0.034|0.024	1064|78|0/1089|56|0	1142|1145	-		1	1.00	1.00	1.00	
STAGE1-2	21	0.034|0.025	5198|376|2/5412|277|3	5576|5692	0.18	0.6713392	1	1.47	0.25	8.80	
STAGE2	21	0.034|0.025	4134|298|2/4323|221|3	4434|4547	0.18	0.6750488	1	1.46	0.24	8.76	
CPSII	24	0.030|0.017	510|33|0/518|16|1	543|535							
PBCS1	22	0.033|0.022	473|33|0/640|29|0	506|669	-		1	1.00	1.00	1.00	
PLCO	22	0.036|0.028	906|68|1/895|52|1	975|948	0.00	0.9841482	1	1.03	0.06	16.47	
WHI	23	0.034|0.026	2245|164|1/2270|124|1	2410|2395	0.00	0.9964767	1	1.01	0.06	16.10	
STAGE3	5	0.035|0.032	4728|342|8/3745|231|11	5078|3987	1.50	0.2213234	1	1.75	0.70	4.36	
NHS2	15	0.040|0.025	1074|82|5/558|21|4	1161|583	0.49	0.4824677	1	1.60	0.43	5.97	
NOR	24	0.036|0.043	460|36|0/472|44|0	496|516	-		1	1.00	1.00	1.00	
PBCS2	8	0.032|0.030	1648|112|1/1358|83|2	1761|1443	0.57	0.4512525	1	2.44	0.22	26.97	
USRT	24	0.037|0.035	920|74|0/723|54|0	994|777	-		1	1.00	1.00	1.00	

WHS	7	0.032|0.029	626|38|2|634|29|5	666|668	1.28	0.2572544	1	2.50	0.48	12.95
PBCS 1+2	15	0.032|0.027	2121|145|1|1997|112|2	2267|2111	0.41	0.5223721	1	2.15	0.19	23.71

Locus	Alleles	Chr	Location	Neighborhood
rs11077820	T|C	17q25.1		71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.370|0.365	4214|4964|1454|3948|4367|1348	10632|9663	0.32	0.5713974	1	1.02	0.94	1.11
NHS	16	0.382|0.370	429|553|160|475|492|178	1142|1145	1.07	0.3009251	1	1.13	0.90	1.42
STAGE1-2	20	0.380|0.368	2081|2738|750|2321|2552|815	5569|5688	1.74	0.1867883	1	1.07	0.97	1.20
STAGE2	19	0.380|0.367	1652|2185|590|1846|2060|637	4427|4543	0.92	0.3387264	1	1.06	0.94	1.20
CPSII	10	0.377|0.374	216|242|83|205|260|70	541|535	1.12	0.2890072	1	0.83	0.59	1.17
PBCS1	21	0.375|0.353	193|244|67|284|298|87	504|669	0.02	0.8845764	1	0.98	0.69	1.37
PLCO	18	0.371|0.355	371|484|120|395|430|121	975|946	0.10	0.7493309	1	1.05	0.80	1.37
WHI	17	0.385|0.374	872|1215|320|962|1072|359	2407|2393	2.88	0.089637	1	1.15	0.98	1.35
STAGE3	11	0.359|0.362	2133|2225|705|1628|1817|533	5063|3978	0.52	0.4703102	1	0.96	0.85	1.08
NHS2	24	0.364|0.373	470|516|158|227|268|81	1144|576	0.02	0.8869158	1	1.02	0.77	1.36
NOR	3	0.329|0.316	225|216|55|233|237|44	496|514	1.83	0.176699	1	0.75	0.49	1.14
PBCS2	15	0.359|0.375	732|784|238|563|671|204	1754|1438	0.25	0.6153418	1	1.05	0.86	1.29
USRT	20	0.371|0.380	405|441|148|303|353|118	994|774	0.04	0.8353826	1	1.03	0.79	1.34
WHS	3	0.356|0.340	301|268|106|302|288|86	675|676	2.46	0.1165489	1	0.78	0.58	1.06
PBCS 1+2	20	0.362|0.368	925|1029|304|846|967|291	2258|2104	0.12	0.7237708	1	1.03	0.87	1.23

Locus	Alleles	Chr	Location	Neighborhood
rs7936636	C|T	11p11.2		44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.255|0.245	5896|4093|666|5545|3548|599	10655|9692	0.04	0.8358464	1	0.99	0.88	1.11
NHS	20	0.256|0.240	635|430|77|673|395|77	1142|1145	0.00	0.9865515	1	1.00	0.72	1.38
STAGE1-2	23	0.263|0.242	3003|2205|365|3307|2014|370	5573|5691	0.01	0.9179593	1	0.99	0.85	1.15
STAGE2	23	0.265|0.243	2368|1775|288|2634|1619|293	4431|4546	0.01	0.9165301	1	0.99	0.84	1.17
CPSII	19	0.266|0.233	286|224|32|323|175|37	542|535	0.46	0.4977648	1	1.18	0.73	1.93
PBCS1	20	0.247|0.226	284|193|28|406|222|40	505|668	0.10	0.7475902	1	1.09	0.66	1.78
PLCO	13	0.263|0.249	526|385|64|546|332|70	975|948	0.50	0.4802129	1	1.13	0.80	1.61
WHI	21	0.270|0.247	1272|973|164|1359|890|146	2409|2395	1.01	0.3153991	1	0.89	0.71	1.12
STAGE3	17	0.245|0.249	2893|1888|301|2238|1535|228	5082|4001	0.21	0.6504625	1	0.96	0.80	1.15
NHS2	13	0.264|0.235	630|457|79|344|206|34	1166|584	0.59	0.444149	1	0.85	0.56	1.29
NOR	2	0.192|0.237	326|153|19|301|185|30	498|516	2.20	0.1378915	1	1.56	0.86	2.80
PBCS2	11	0.245|0.264	993|643|105|769|569|94	1741|1432	0.38	0.5375742	1	1.09	0.82	1.46
USRT	4	0.254|0.240	553|376|64|442|301|37	993|780	2.35	0.1249335	1	0.72	0.48	1.10
WHS	19	0.239|0.247	391|259|34|382|274|33	684|689	0.02	0.8761683	1	0.96	0.59	1.57
PBCS 1+2	14	0.245|0.252	1277|836|133|1175|790|135	2246|2100	0.48	0.4875224	1	1.09	0.85	1.40

Locus	Alleles	Chr	Location	Neighborhood
rs12622050	G|A	2q11.2		100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.223|0.212	6394|3731|508|6029|3163|462	10633|9654	0.00	0.9787179	1	1.00	0.88	1.14
NHS	14	0.220|0.189	695|392|55|754|349|42	1142|1145	1.86	0.1731762	1	0.75	0.50	1.13
STAGE1-2	22	0.220|0.201	3356|1980|239|3650|1790|248	5575|5688	0.04	0.84884	1	1.02	0.85	1.22
STAGE2	20	0.221|0.204	2661|1588|184|2896|1441|206	4433|4543	0.80	0.3725807	1	1.10	0.90	1.34
CPSII	5	0.217|0.205	323|203|16|341|165|27	542|533	3.13	0.0770327	1	1.75	0.93	3.29
PBCS1	12	0.244|0.239	284|197|25|391|235|42	506|668	0.97	0.3245958	1	1.29	0.78	2.15
PLCO	8	0.229|0.199	577|350|48|606|307|35	975|948	1.76	0.1841365	1	0.74	0.47	1.16
WHI	22	0.213|0.196	1477|838|95|1558|734|102	2410|2394	0.31	0.5775141	1	1.08	0.82	1.44
STAGE3	24	0.226|0.227	3039|1753|269|2380|1375|213	5061|3968	0.01	0.9118169	1	1.01	0.84	1.22
NHS2	6	0.205|0.202	734|358|56|359|188|21	1148|568	1.24	0.2661771	1	0.75	0.45	1.25

NOR	12	0.221|0.219	297|179|20|314|175|25	496|514	0.41	0.5219577	1	1.22	0.67	2.22
PBCS2	19	0.252|0.258	980|644|117|793|540|99	1741|1432	0.05	0.8298177	1	1.03	0.78	1.36
USRT	12	0.206|0.205	626|327|41|495|242|38	994|775	0.62	0.4315764	1	1.20	0.76	1.88
WHS	15	0.231|0.214	402|245|35|419|230|30	682|679	0.38	0.53702	1	0.85	0.52	1.41
PBCS 1+2	18	0.250|0.252	1263|839|142|1183|773|142	2244|2098	0.34	0.5575498	1	1.07	0.84	1.37

Supplementary Table 2. Results of Combined Analysis of Multi-stage Analysis of Breast Cancer with Stages 1, 2 and 3 for 24 SNPs for ER+ Cases Only Compared to Controls

Data dictionary

Locus – dbSNP ID
 Alleles – SNP alleles, listed as major|minor
 Chr – chromosomal mapping
 Location – chromosomal location based on NCBI genome build 36.3
 Neighborhood – known protein-coding gene(s) within the vicinity, if the SNP lies within 20kb 5' of the start of transcription of the gene and 10kb 3' of the last exon.
 SUBSET – Analytic subset of the data
 Rank – p value rank relative to the 24 SNPs within each study
 MAF – Minor allele frequency (controls|cases)
 Geno counts – genotype counts for each observed genotype (Major homozygote controls|heterozygote controls|minor homozygote controls/ Major homozygote cases|heterozygote cases|minor homozygote cases)
 Subjects – number of subjects (controls|cases)
 Score X2 – X2 statistic for association by a Score test
 Score p-value – significance level for X2 statistic
 df – degrees of freedom of X2 statistic
 het OR – Odds ratio for the heterozygote genotype (not included for recessive models)
 het OR 95% CI_l – lower bound of the 95% confidence interval of the Odds ratio
 het OR 95% CI_u – upper bound of the 95% confidence interval of the Odds ratio

Supplementary Table results:

adj_gen0 – covariate adjusted, genotype-specific effect model
 adj_trend – covariate adjusted, trend effect model
 adj_rec – covariate adjusted, recessive effect model
 unadj_gen0 – unadjusted, genotype-specific effect model
 unadj_trend – unadjusted, trend effect model
 unadj_rec – unadjusted, recessive effect model

adj_gen0

Locus	Alleles	Chr	Location	Neighborhood	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI_l	het OR 95% CI_u	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
rs11249433	T|C	1p11.2		120982136 LOC647121													
STAGE1-3					1	0.395|0.441	3255|4114|1412|1590|2476|993	8781|5059	49.61	1.691E-11	2	1.22	1.13	1.32	1.42	1.28	1.57
NHS					1	0.388|0.448	425|540|170|238|411|155	1135|804	14.71	0.0006386	2	1.37	1.11	1.68	1.62	1.24	2.12
STAGE1-2					2	0.403|0.443	1899|2491|874|1070|1756|674	5264|3500	31.75	1.277E-07	2	1.26	1.15	1.39	1.37	1.21	1.56
STAGE2					6	0.407|0.442	1474|1951|704|832|1345|519	4129|2696	19.00	0.00007486	2	1.24	1.11	1.38	1.31	1.13	1.51
CPSII					10	0.378|0.405	220|235|88|108|159|48	543|315	3.52	0.172211	2	1.33	0.98	1.82	1.09	0.71	1.66
PBCS1					18	0.387|0.407	195|230|81|124|171|58	506|353	1.45	0.4834956	2	1.21	0.89	1.63	1.09	0.72	1.65
PLCO					19	0.420|0.427	324|476|169|140|232|75	969|447	1.19	0.5517388	2	1.14	0.89	1.48	1.04	0.74	1.46
WHI					2	0.407|0.455	857|1133|411|514|857|359	2401|1730	19.51	0.00005814	2	1.26	1.10	1.45	1.46	1.22	1.75
STAGE3					1	0.383|0.436	1360|1625|538|520|720|319	3523|1559	20.77	0.00003093	2	1.13	0.99	1.30	1.50	1.26	1.79
NHS2					1	0.395|0.446	418|522|182|107|147|72	1122|326	6.47	0.0394376	2	1.10	0.83	1.46	1.55	1.09	2.19
PBCS2					1	0.362|0.410	719|778|240|246|324|121	1737|691	9.24	0.0098565	2	1.22	1.00	1.48	1.48	1.14	1.93
WHS					1	0.419|0.462	223|325|116|167|249|126	664|542	6.43	0.04014	2	1.02	0.79	1.33	1.46	1.06	2.02
PBCS 1+2					1	0.368|0.409	910|1006|321|370|495|179	2237|1044	8.61	0.0134998	2	1.20	1.02	1.41	1.36	1.09	1.69
rs999737	C|T	14q24.1		68104435 RAD51L1													

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% Cl_u
STAGE1-3	2	0.238|0.215	5166|3096|548/3130|1743|227	8810|5100	21.57	0.00002074	2	0.93	0.87	1.01	0.69	0.58	0.81
NHS	8	0.244|0.209	660|405|76/499|278|30	1141|807	8.97	0.0113029	2	0.91	0.75	1.10	0.52	0.33	0.81
STAGE1-2	9	0.239|0.211	3092|1862|330/2185|1182|150	5284|3517	20.74	0.00003134	2	0.90	0.82	0.99	0.64	0.53	0.79
STAGE2	12	0.237|0.211	2432|1457|254/1686|904|120	4143|2710	13.00	0.0015028	2	0.90	0.81	1.00	0.68	0.54	0.86
CPSII	21	0.235|0.223	319|193|31/193|105|18	543|316	0.38	0.8256143	2	0.91	0.67	1.23	0.93	0.51	1.72
PBCS1	3	0.242|0.203	291|185|30/219|125|9	506|353	6.49	0.0390619	2	0.89	0.67	1.20	0.38	0.18	0.83
PLCO	2	0.238|0.225	576|334|65/262|170|16	975|448	6.66	3.58E-02	2	1.14	0.89	1.44	0.54	0.30	0.96
WHI	12	0.235|0.208	1416|854|139/1100|559|83	2409|1742	8.52	0.0140877	2	0.84	0.74	0.96	0.76	0.57	1.01
STAGE3	10	0.237|0.226	2075|1237|218/946|562|77	3530|1585	2.90	0.234108	2	0.99	0.87	1.13	0.79	0.60	1.04
NHS2	19	0.234|0.233	664|362|77/198|115|20	1103|333	0.64	0.7260858	2	1.07	0.82	1.40	0.88	0.52	1.47
PBCS2	15	0.236|0.224	1016|637|94/422|248|34	1747|704	0.62	0.7349966	2	0.94	0.78	1.13	0.89	0.59	1.34
WHS	5	0.244|0.224	395|238|47/326|199|23	680|548	3.94	0.1393825	2	1.01	0.79	1.28	0.60	0.36	1.01
PBCS 1+2	7	0.237|0.217	1306|819|124/640|372|43	2249|1055	3.66	0.1600936	2	0.93	0.79	1.08	0.72	0.50	1.03

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% Cl_u
STAGE1-3	3	0.156|0.160	6264|2378|185/3629|1305|166	8827|5100	19.62	0.00005499	2	0.94	0.87	1.02	1.55	1.25	1.93
NHS	13	0.159|0.168	807|306|28/572|199|36	1141|807	6.73	0.0346298	2	0.92	0.75	1.13	1.83	1.10	3.05
STAGE1-2	3	0.155|0.161	3739|1443|99/2508|881|126	5281|3515	28.23	7.429E-07	2	0.91	0.82	1.00	1.88	1.44	2.47
STAGE2	2	0.154|0.159	2932|1137|71/1936|682|90	4140|2708	21.39	0.00002262	2	0.90	0.81	1.01	1.91	1.39	2.62
CPSII	13	0.173|0.171	368|161|13/220|84|12	542|316	2.87	0.2379985	2	0.84	0.61	1.15	1.60	0.71	3.59
PBCS1	1	0.138|0.156	373|123|8/259|76|17	504|352	9.31	0.0095011	2	0.86	0.62	1.20	3.27	1.38	7.77
PLCO	17	0.156|0.160	688|270|17/318|117|13	975|448	1.73	0.4208722	2	0.92	0.71	1.19	1.50	0.71	3.17
WHI	10	0.154|0.157	1704|664|40/1244|446|51	2408|1741	9.04	0.0108737	2	0.92	0.80	1.06	1.75	1.15	2.67
STAGE3	22	0.156|0.159	2525|935|85/1121|424|40	3545|1585	0.17	0.9182276	2	1.01	0.88	1.16	1.08	0.73	1.60
NHS2	12	0.167|0.151	777|314|30/246|82|10	1121|338	1.81	0.4047437	2	0.83	0.62	1.10	1.05	0.51	2.18
PBCS2	14	0.148|0.158	1266|440|38/496|184|18	1744|698	0.76	0.6848511	2	1.06	0.87	1.30	1.23	0.69	2.19
WHS	20	0.158|0.166	482|181|17/379|158|12	680|549	0.60	0.7418528	2	1.10	0.85	1.41	0.93	0.44	1.98
PBCS 1+2	4	0.146|0.157	1639|563|47/755|260|35	2249|1050	4.40	0.1108098	2	1.02	0.86	1.21	1.61	1.03	2.53

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% Cl_u
STAGE1-3	4	0.220|0.243	5382|3016|434/2950|1835|322	8832|5107	18.94	0.00007703	2	1.11	1.03	1.20	1.35	1.16	1.57
NHS	6	0.215|0.253	693|401|44/451|303|53	1138|807	9.52	0.0085743	2	1.16	0.95	1.40	1.86	1.22	2.82
STAGE1-2	1	0.216|0.248	3227|1822|226/2015|1256|243	5275|3514	32.07	1.085E-07	2	1.11	1.01	1.21	1.71	1.41	2.06
STAGE2	1	0.216|0.246	2534|1421|182/1564|953|190	4137|2707	22.85	0.0000109	2	1.09	0.98	1.21	1.67	1.35	2.07
CPSII	18	0.225|0.241	325|192|26/186|108|22	543|316	1.00	0.6051402	2	0.98	0.73	1.32	1.34	0.73	2.45
PBCS1	5	0.217|0.272	308|173|23/186|139|26	504|351	6.12	0.0469141	2	1.29	0.97	1.74	1.87	1.03	3.41
PLCO	20	0.223|0.232	577|359|37/261|166|21	973|448	0.82	0.6633659	2	1.01	0.80	1.29	1.30	0.74	2.27
WHI	4	0.212|0.248	1499|797|111/1010|600|131	2407|1741	18.18	0.0001131	2	1.12	0.98	1.28	1.75	1.34	2.28
STAGE3	3	0.226|0.231	2155|1196|208/936|581|78	3559|1595	4.88	0.0871987	2	1.12	0.99	1.27	1.07	0.66	1.14
NHS2	11	0.229|0.230	676|383|66/198|126|15	1125|339	1.84	0.3979516	2	1.12	0.87	1.45	0.78	0.43	1.39
PBCS2	10	0.223|0.233	1070|586|98/417|254|38	1754|709	1.25	0.5339971	2	1.11	0.92	1.34	1.02	0.69	1.51
WHS	8	0.232|0.229	409|227|44/321|201|25	680|547	2.98	0.2258697	2	1.13	0.89	1.44	0.73	0.44	1.22
PBCS 1+2	3	0.221|0.246	1378|757|121/602|391|65	2256|1058	4.58	0.1012678	2	1.17	1.00	1.37	1.22	0.89	1.68

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.352|0.377	3704|4014|1097|2017|2314|764	8815|5095	18.94	0.00007725	2	1.05	0.97	1.13	1.27	1.14	1.42
NHS	14	0.356|0.375	459|551|130/325|359|123	1140|807	6.30	0.0428622	2	0.91	0.75	1.11	1.31	0.98	1.74
STAGE1-2	10	0.348|0.377	2226|2432|625/1401|1579|536	5283|3516	19.87	0.00004853	2	1.03	0.94	1.13	1.34	1.18	1.54
STAGE2	7	0.346|0.378	1767|1881|495/1076|1220|413	4143|2709	15.25	0.0004869	2	1.06	0.96	1.18	1.35	1.16	1.58
CPSII	11	0.350|0.351	220|266|57/137|136|43	543|316	3.40	0.1827009	2	0.81	0.60	1.10	1.18	0.75	1.87
PBCS1	19	0.345|0.364	216|231|59/147|154|51	506|352	1.06	0.5890937	2	0.98	0.73	1.32	1.23	0.79	1.90
PLCO	5	0.333|0.376	437|427|111/170|219|59	975|448	5.38	0.0677716	2	1.32	1.03	1.68	1.31	0.91	1.90
WHI	6	0.351|0.384	1018|1093|298/682|781|279	2409|1742	12.26	0.002174	2	1.06	0.93	1.22	1.40	1.16	1.70
STAGE3	11	0.358|0.377	1479|1586|472/617|735|228	3537|1580	2.74	0.2536781	2	1.09	0.96	1.24	1.15	0.95	1.38
NHS2	22	0.368|0.371	459|501|163/139|147|52	1123|338	0.22	0.897915	2	0.97	0.74	1.26	1.05	0.73	1.51
PBCS2	13	0.349|0.365	744|779|218/286|322|96	1741|704	1.01	0.6039309	2	1.07	0.89	1.29	1.14	0.86	1.50
WHS	4	0.363|0.396	276|306|91/192|266|80	673|538	3.96	0.1382315	2	1.26	0.98	1.61	1.30	0.91	1.85
PBCS 1+2	13	0.348|0.365	959|1006|277/432|476|147	2242|1055	2.10	0.3500615	2	1.05	0.90	1.24	1.19	0.94	1.50

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.160|0.176	6228|2348|240/3497|1411|190	8816|5098	17.62	0.0001493	2	1.08	0.99	1.16	1.49	1.22	1.82
NHS	11	0.151|0.179	814|310|17/542|240|24	1141|806	7.54	0.023108	2	1.18	0.96	1.44	2.13	1.13	4.02
STAGE1-2	4	0.150|0.175	3805|1374|105/2412|975|129	5284|3516	28.21	7.481E-07	2	1.11	1.01	1.23	1.96	1.50	2.55
STAGE2	3	0.150|0.174	2991|1064|88/1870|735|105	4143|2710	20.94	0.0000284	2	1.10	0.98	1.23	1.92	1.43	2.57
CPSII	17	0.159|0.171	383|147|13/221|82|13	543|316	1.34	0.5123511	2	0.94	0.68	1.30	1.53	0.69	3.39
PBCS1	7	0.191|0.231	335|149|22/208|127|18	506|353	5.05	0.0801812	2	1.39	1.03	1.87	1.38	0.72	2.66
PLCO	18	0.144|0.156	714|241|20/322|112|14	975|448	1.46	0.4822906	2	1.01	0.77	1.31	1.54	0.76	3.11
WHI	3	0.143|0.170	1761|606|42/1216|460|66	2409|1742	18.41	0.0001004	2	1.10	0.96	1.27	2.28	1.54	3.38
STAGE3	23	0.176|0.177	2423|975|135/1085|437|61	3533|1583	0.14	0.930503	2	1.01	0.89	1.16	1.06	0.77	1.45
NHS2	16	0.169|0.161	777|292|42/240|79|14	1111|333	0.94	0.6240002	2	0.88	0.66	1.17	1.08	0.58	2.01
PBCS2	22	0.190|0.188	1158|519|73/467|211|27	1750|705	0.10	0.9515743	2	1.01	0.83	1.22	0.93	0.59	1.47
WHS	10	0.152|0.172	488|164|20/378|147|20	672|545	1.73	0.4213178	2	1.16	0.89	1.51	1.30	0.69	2.45
PBCS 1+2	17	0.190|0.202	1493|667|95/675|337|45	2255|1057	1.32	0.516911	2	1.10	0.94	1.29	1.03	0.71	1.49

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.034|0.026	8222|583|10/4833|251|9	8815|5093	16.85	0.0002193	2	0.74	0.63	0.86	1.75	0.70	4.42
NHS	22	0.034|0.026	1063|78|0/765|42|0	1141|807									
STAGE1-2	17	0.034|0.025	4926|356|2/3341|174|2	5284|3517	12.29	0.0021428	2	0.72	0.60	0.87	1.61	0.22	11.68
STAGE2	15	0.034|0.025	3863|278|2/2576|132|2	4143|2710	10.34	0.00568	2	0.71	0.57	0.88	1.62	0.22	11.72
CPSII	24	0.030|0.019	510|33|0/305|10|1	543|316									
PBCS1	22	0.033|0.024	473|33|0/336|17|0	506|353									
PLCO	24	0.036|0.026	906|68|1/425|23|0	975|448									
WHI	14	0.034|0.025	2245|163|1/1655|86|1	2409|1742	6.29	0.0431654	2	0.71	0.54	0.93	1.38	0.09	22.07
STAGE3	4	0.034|0.029	3296|227|8/1493|77|7	3531|1577	4.78	0.0915615	2	0.78	0.59	1.02	1.82	0.64	5.17
NHS2	4	0.039|0.030	1029|77|5/321|14|3	1111|338	4.15	0.1258279	2	0.59	0.33	1.05	1.90	0.45	8.02
PBCS2	24	0.032|0.028	1648|112|1/669|40|0	1761|709									
WHS	9	0.032|0.029	619|38|2/503|23|4	659|530	1.93	0.3800476	2	0.77	0.45	1.32	2.34	0.42	12.91
PBCS 1+2	24	0.032|0.027	2121|145|1/1004|57|0	2267|1061									

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.136|0.121	6618|2036|188/3939|1089|75	8842|5103	16.65	0.0002425	2	0.88	0.81	0.96	0.65	0.49	0.85
NHS	7	0.153|0.121	818|296|27/624|169|13	1141|806	9.11	0.0105183	2	0.74	0.59	0.92	0.61	0.31	1.19
STAGE1-2	12	0.143|0.122	3887|1281|116/2710|757|49	5284|3516	18.51	0.00009569	2	0.84	0.76	0.93	0.60	0.43	0.84
STAGE2	14	0.140|0.122	3069|985|89/2086|588|36	4143|2710	11.12	0.0038411	2	0.87	0.78	0.98	0.60	0.40	0.88
CPSII	6	0.140|0.114	398|138|7/250|60|6	543|316	4.19	0.1231113	2	0.72	0.51	1.02	1.49	0.49	4.55
PBCS1	4	0.153|0.110	364|129|13/278|72|3	506|353	6.29	0.0430154	2	0.73	0.52	1.01	0.33	0.09	1.20
PLCO	10	0.132|0.116	738|216|21/348|96|4	975|448	2.93	0.231421	2	0.94	0.71	1.23	0.41	0.14	1.21
WHI	16	0.141|0.126	1783|572|54/1330|386|26	2409|1742	4.75	0.0929904	2	0.91	0.78	1.05	0.64	0.40	1.03
STAGE3	13	0.127|0.122	2733|758|72/1229|335|26	3563|1590	1.31	0.5193619	2	0.98	0.84	1.13	0.77	0.48	1.22
NHS2	21	0.126|0.118	869|243|21/261|69|5	1133|335	0.29	0.8663792	2	0.95	0.70	1.28	0.81	0.30	2.16
PBCS2	19	0.124|0.119	1344|368|32/554|145|12	1744|711	0.24	0.8866501	2	0.95	0.77	1.19	0.91	0.46	1.79
WHS	11	0.135|0.128	520|147|19/414|121|9	686|544	1.70	0.4269626	2	1.03	0.78	1.36	0.60	0.27	1.34
PBCS 1+2	6	0.130|0.115	1706|494|45/832|214|15	2245|1061	3.67	0.1598257	2	0.87	0.73	1.05	0.67	0.37	1.21

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.094|0.109	7261|1521|74/4054|1012|52	8856|5118	16.24	0.0002972	2	1.19	1.09	1.30	1.30	0.90	1.87
NHS	12	0.085|0.108	951|185|5/642|155|10	1141|807	7.45	0.0241496	2	1.25	0.98	1.58	1.30	1.04	9.09
STAGE1-2	11	0.089|0.110	4388|849|47/2781|693|41	5284|3515	19.10	0.00007109	2	1.27	1.14	1.42	1.36	0.89	2.08
STAGE2	8	0.090|0.111	3437|664|42/2139|538|31	4143|2708	14.76	0.0006233	2	1.28	1.13	1.46	1.16	0.72	1.86
CPSII	15	0.099|0.111	444|90|9/250|62|4	543|316	1.72	0.4231034	2	1.25	0.87	1.80	0.78	0.24	2.61
PBCS1	11	0.094|0.123	417|83|6/270|79|4	506|353	3.97	0.1371373	2	1.43	1.01	2.03	1.06	0.29	3.87
PLCO	3	0.077|0.106	832|135|8/357|87|4	975|448	6.36	0.041529	2	1.47	1.09	1.99	1.17	0.34	3.97
WHI	13	0.094|0.110	1982|403|24/1378|341|21	2409|1740	6.30	0.0428281	2	1.22	1.04	1.43	1.28	0.70	2.31
STAGE3	19	0.102|0.106	2873|673|27/1275|319|11	3573|1605	0.68	0.7130201	2	1.05	0.90	1.22	1.21	0.60	2.47
NHS2	14	0.103|0.099	905|207|12/280|56|6	1124|342	1.66	0.4369315	2	0.87	0.63	1.21	1.61	0.60	4.33
PBCS2	20	0.104|0.107	1412|338|15/565|143|5	1765|713	0.23	0.8925055	2	1.05	0.84	1.31	0.90	0.32	2.51
WHS	24	0.094|0.109	556|128|0/430|120|0	684|550									
PBCS 1+2	10	0.102|0.113	1829|420|21/833|222|9	2270|1064	2.61	0.2717919	2	1.16	0.97	1.39	0.90	0.41	2.00

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.407|0.431	3135|4180|1492/1673|2433|970	8807|5076	15.44	0.0004428	2	1.09	1.01	1.18	1.22	1.11	1.36
NHS	2	0.392|0.437	429|513|185/240|421|139	1127|800	13.27	0.0013121	2	1.46	1.19	1.79	1.34	1.02	1.75
STAGE1-2	15	0.401|0.429	1895|2517|857/1154|1698|657	5269|3509	12.80	0.0016655	2	1.10	1.00	1.21	1.26	1.11	1.43
STAGE2	17	0.404|0.427	1466|2004|672/914|1277|518	4142|2709	9.49	0.0086806	2	1.02	0.91	1.14	1.23	1.07	1.42
CPSII	12	0.427|0.389	178|265|99/121|144|51	542|316	2.92	0.2321868	2	0.80	0.59	1.09	0.73	0.48	1.11
PBCS1	10	0.410|0.463	174|249|83/97|185|71	506|353	4.36	0.1130617	2	1.33	0.96	1.82	1.47	0.98	2.21
PLCO	16	0.408|0.407	339|475|160/163|205|80	974|448	1.88	0.3899788	2	0.86	0.67	1.11	1.02	0.74	1.43
WHI	9	0.400|0.429	866|1158|385/588|813|340	2409|1741	9.35	0.009336	2	1.04	0.91	1.19	1.31	1.09	1.57
STAGE3	7	0.415|0.435	1240|1666|636/520|739|315	3542|1574	3.89	0.1427696	2	1.07	0.93	1.22	1.19	1.00	1.41
NHS2	3	0.402|0.449	413|517|193/105|156|71	1123|332	4.38	0.1117045	2	1.19	0.90	1.57	1.44	1.02	2.04
PBCS2	11	0.424|0.440	593|833|328/226|346|140	1754|712	1.12	0.5725758	2	1.10	0.90	1.34	1.12	0.87	1.45
WHS	12	0.411|0.420	234|316|115/189|237|104	665|530	1.37	0.5036895	2	0.93	0.72	1.20	1.12	0.81	1.55
PBCS 1+2	5	0.421|0.447	767|1079|410/322|527|209	2256|1058	3.95	0.138529	2	1.15	0.97	1.36	1.21	0.98	1.50

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	11	0.374|0.367	3426|4157|1207/2093|2255|738	8790|5086	11.98	0.0025069	2	0.88	0.82	0.95	0.98	0.88	1.09
NHS	17	0.382|0.374	429|553|159/329|353|125	1141|807	4.65	0.0979731	2	0.82	0.67	1.00	0.99	0.75	1.31
STAGE1-2	6	0.383|0.368	1953|2611|714/1447|1549|517	5278|3513	24.21	0.000005523	2	0.80	0.73	0.88	0.95	0.84	1.09
STAGE2	5	0.383|0.366	1524|2058|555/1118|1196|392	4137|2706	19.64	0.00005438	2	0.79	0.71	0.88	0.94	0.81	1.10
CPSII	19	0.377|0.359	216|242|83/131|143|42	541|316	0.87	0.6478341	2	0.99	0.73	1.34	0.82	0.53	1.27
PBCS1	12	0.375|0.334	193|244|67/160|150|43	504|353	3.23	0.1986905	2	0.77	0.57	1.03	0.79	0.51	1.23
PLCO	11	0.371|0.354	371|484|120/188|200|58	975|446	2.79	0.2477566	2	0.81	0.64	1.04	0.89	0.62	1.28
WHI	5	0.385|0.378	871|1215|320/694|776|270	2406|1740	14.12	0.0008569	2	0.80	0.70	0.92	1.06	0.87	1.28
STAGE3	14	0.361|0.365	1473|1545|494/646|707|221	3512|1574	1.28	0.5273617	2	1.08	0.95	1.23	1.03	0.86	1.24
NHS2	24	0.364|0.373	446|495|150/133|153|48	1091|334	0.16	0.9241262	2	1.04	0.80	1.36	1.07	0.73	1.57
PBCS2	6	0.359|0.382	732|784|238/269|335|102	1754|706	2.67	0.2634574	2	1.16	0.96	1.40	1.18	0.90	1.55
WHS	15	0.358|0.338	295|266|106/244|219|71	667|534	1.32	0.5166208	2	1.00	0.78	1.28	0.83	0.59	1.17
PBCS 1+2	21	0.362|0.366	925|1029|304/429|484|145	2258|1058	0.08	0.9591668	2	1.01	0.86	1.18	1.03	0.82	1.30

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	12	0.225|0.209	5271|3090|432/3197|1647|236	8793|5080	11.86	0.002653	2	0.88	0.81	0.95	0.93	0.78	1.09
NHS	16	0.220|0.189	694|392|55/529|251|27	1141|807	5.11	0.0776797	2	0.84	0.69	1.03	0.66	0.41	1.06
STAGE1-2	13	0.220|0.200	3182|1875|227/2262|1101|152	5284|3515	16.47	0.0002649	2	0.83	0.75	0.91	0.95	0.76	1.17
STAGE2	9	0.220|0.203	2488|1483|172/1733|850|125	4143|2708	14.43	0.0007365	2	0.82	0.74	0.91	1.04	0.82	1.32
CPSII	1	0.217|0.213	323|203|16/201|94|20	542|315	10.19	0.0061334	2	0.72	0.53	0.97	1.98	0.99	3.94
PBCS1	9	0.244|0.249	284|197|25/204|121|27	506|352	4.65	0.0979549	2	0.83	0.62	1.11	1.54	0.86	2.75
PLCO	7	0.229|0.195	577|350|48/288|145|15	975|448	4.17	0.1242041	2	0.83	0.65	1.06	0.62	0.34	1.13
WHI	11	0.213|0.194	1476|838|95/1138|530|73	2409|1741	8.80	0.012265	2	0.82	0.72	0.93	0.99	0.72	1.35
STAGE3	20	0.232|0.228	2090|1217|205/936|547|83	3512|1566	0.44	0.8010732	2	0.99	0.87	1.12	1.01	0.70	1.20
NHS2	13	0.200|0.216	712|332|53/202|112|15	1097|329	1.66	0.4359351	2	1.19	0.91	1.55	1.00	0.55	1.81
PBCS2	18	0.252|0.245	980|644|117/402|254|45	1741|701	0.28	0.8702188	2	0.95	0.79	1.15	0.94	0.66	1.36
WHS	13	0.231|0.212	398|241|35/332|181|23	674|536	1.37	0.5040364	2	0.90	0.70	1.14	0.78	0.45	1.34
PBCS 1+2	16	0.250|0.247	1263|839|142/605|374|73	2244|1052	1.36	0.5065272	2	0.93	0.79	1.09	1.08	0.80	1.46

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	13	0.208|0.224	5507|2905|379/3076|1762|263	8791|5101	11.74	0.0028225	2	1.08	1.00	1.16	1.29	1.10	1.53
NHS	3	0.204|0.245	718|381|42/457|304|46	1141|807	10.56	0.0050906	2	1.27	1.05	1.54	1.76	1.14	2.72
STAGE1-2	8	0.208|0.229	3285|1798|201/2104|1217|196	5284|3517	20.92	0.0000286	2	1.06	0.97	1.16	1.56	1.27	1.92
STAGE2	13	0.209|0.224	2567|1417|159/1647|913|150	4143|2710	12.16	0.0022935	2	1.01	0.91	1.12	1.51	1.19	1.91
CPSII	9	0.196|0.201	343|187|13/203|99|14	543|316	3.53	0.1713941	2	0.89	0.66	1.21	1.89	0.86	4.18
PBCS1	6	0.210|0.215	310|179|17/223|108|22	506|353	5.77	0.0559607	2	0.83	0.61	1.11	1.85	0.95	3.61
PLCO	12	0.220|0.238	599|323|53/259|165|24	975|448	2.46	0.2918808	2	1.21	0.95	1.54	1.07	0.64	1.78
WHI	8	0.206|0.225	1501|825|83/1053|594|95	2409|1742	9.96	0.0068861	2	1.03	0.90	1.17	1.63	1.20	2.21
STAGE3	9	0.209|0.214	2222|1108|178/972|545|67	3508|1584	3.43	0.179634	2	1.11	0.97	1.26	0.89	0.66	1.19
NHS2	5	0.208|0.229	694|332|60/194|119|16	1086|329	3.70	0.1570384	2	1.29	0.99	1.67	0.96	0.54	1.71
PBCS2	23	0.208|0.210	1111|557|86/448|228|35	1754|711	0.01	0.9969135	2	1.01	0.83	1.22	0.99	0.66	1.49
WHS	6	0.212|0.211	417|219|32/330|198|16	668|544	3.90	0.1425496	2	1.15	0.90	1.46	0.63	0.34	1.18
PBCS 1+2	15	0.208|0.211	1421|735|103/671|336|57	2259|1064	1.39	0.5000978	2	0.96	0.82	1.13	1.18	0.84	1.66

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	14	0.219|0.220	5354|3028|417/3142|1658|292	8799|5092	11.45	0.0032619	2	0.94	0.87	1.01	1.23	1.05	1.44
NHS	10	0.218|0.222	691|402|48/502|251|54	1141|807	8.28	0.0159561	2	0.87	0.71	1.05	1.25	1.05	2.37
STAGE1-2	7	0.218|0.217	3200|1869|215/2194|1121|202	5284|3517	21.35	0.0000231	2	0.88	0.80	0.96	1.38	1.13	1.69
STAGE2	10	0.217|0.215	2509|1467|167/1692|870|148	4143|2710	13.79	0.0010107	2	0.88	0.79	0.98	1.32	1.05	1.66
CPSII	7	0.215|0.199	328|197|18/205|96|15	543|316	4.18	0.1235035	2	0.75	0.56	1.02	1.26	0.61	2.58
PBCS1	14	0.242|0.245	282|203|21/203|127|23	506|353	2.91	0.2333108	2	0.89	0.66	1.18	1.52	0.81	2.85
PLCO	22	0.214|0.218	603|326|46/277|147|24	975|448	0.11	0.9460943	2	0.99	0.78	1.27	1.09	0.64	1.84
WHI	7	0.215|0.210	1466|851|92/1105|544|93	2409|1742	11.15	0.0037838	2	0.85	0.74	0.97	1.34	1.00	1.81
STAGE3	15	0.222|0.228	2154|1160|202/948|539|90	3516|1577	1.14	0.5652783	2	1.07	0.94	1.22	1.06	0.81	1.38
NHS2	23	0.210|0.212	694|349|56/207|109|16	1099|332	0.16	0.9223433	2	1.05	0.80	1.37	0.95	0.54	1.70
PBCS2	5	0.234|0.254	1042|597|112/398|260|50	1751|708	2.73	0.255239	2	1.15	0.95	1.38	1.22	0.85	1.74
WHS	22	0.212|0.203	418|214|34/343|170|24	666|537	0.24	0.8852347	2	0.97	0.76	1.24	0.88	0.51	1.51
PBCS 1+2	12	0.236|0.251	1324|799|133/601|385|73	2256|1059	2.14	0.3436949	2	1.05	0.89	1.22	1.25	0.92	1.69

Locus rs37936 Alleles A|G Chr 7q21.11 Location Neighborhood 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	15	0.384|0.367	3358|3974|1348/2015|2294|686	8680|4995	10.84	0.0044185	2	0.95	0.88	1.03	0.83	0.75	0.93
NHS	9	0.399|0.362	403|541|177/333|343|115	1121|791	8.46	0.0145877	2	0.75	0.62	0.92	0.76	0.58	1.01
STAGE1-2	5	0.400|0.362	1731|2149|796/1268|1397|418	4676|3083	25.08	0.000003587	2	0.88	0.79	0.97	0.70	0.61	0.81
STAGE2	4	0.400|0.362	1328|1608|619/935|1054|303	3555|2292	20.93	0.00002857	2	0.92	0.82	1.03	0.69	0.58	0.81
CPSII	16	0.387|0.355	199|251|79/131|139|41	529|311	1.50	0.4719206	2	0.85	0.63	1.15	0.80	0.52	1.25
PLCO	21	0.378|0.372	379|431|146/181|186|69	956|436	0.66	0.7173457	2	0.90	0.70	1.16	0.97	0.69	1.36
WHI	1	0.409|0.362	857|1064|430/680|800|212	2351|1692	25.12	0.000003512	2	0.95	0.83	1.09	0.62	0.51	0.75
STAGE3	12	0.366|0.374	1434|1610|490/618|750|218	3534|1586	1.48	0.4773839	2	1.08	0.95	1.24	1.04	0.86	1.26
NHS2	6	0.366|0.404	457|508|157/122|166|56	1122|344	3.27	0.1946363	2	1.22	0.94	1.59	1.34	0.93	1.92
PBCS2	7	0.368|0.360	706|782|248/283|324|88	1736|695	1.70	0.4278026	2	1.05	0.87	1.27	0.87	0.66	1.16
WHS	21	0.362|0.373	271|320|85/213|260|74	676|547	0.36	0.8355155	2	1.03	0.81	1.32	1.12	0.78	1.60
PBCS 1+2	19	0.367|0.366	899|997|310/412|471|138	2206|1021	0.43	0.8084046	2	1.03	0.88	1.21	0.96	0.76	1.21

Locus rs3134615 Alleles G|T Chr 1p34.2 Location Neighborhood 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	16	0.227|0.243	5293|3091|463/2906|1906|288	8847|5100	10.33	0.00572	2	1.11	1.03	1.20	1.17	1.00	1.37
NHS	4	0.220|0.262	689|402|50/433|325|49	1141|807	10.40	0.0055044	2	1.30	1.08	1.58	1.60	1.06	2.43
STAGE1-2	20	0.228|0.248	3133|1895|256/1984|1323|210	5284|3517	10.95	0.0041946	2	1.11	1.01	1.21	1.32	1.09	1.61
STAGE2	21	0.230|0.244	2444|1493|206/1551|998|161	4143|2710	4.53	0.1036742	2	1.05	0.95	1.17	1.25	1.01	1.56
CPSII	8	0.215|0.222	326|200|17/193|106|17	543|316	3.79	0.1503889	2	0.89	0.66	1.20	1.80	0.89	3.66
PBCS1	13	0.226|0.231	299|185|22/213|117|23	506|353	3.02	0.2205182	2	0.88	0.65	1.18	1.52	0.81	2.83
PLCO	9	0.236|0.253	578|334|63/247|175|26	975|448	3.46	0.1775177	2	1.25	0.98	1.58	0.98	0.60	1.59
WHI	17	0.229|0.247	1421|875|113/985|654|103	2409|1742	4.44	0.1084665	2	1.08	0.95	1.23	1.32	0.99	1.74
STAGE3	6	0.226|0.234	2160|1196|207/922|585|79	3563|1586	4.05	0.1318465	2	1.12	0.99	1.28	0.92	0.70	1.21
NHS2	9	0.228|0.241	687|372|72/190|124|18	1131|332	2.39	0.3023301	2	1.21	0.93	1.56	0.91	0.53	1.56
PBCS2	21	0.226|0.225	1063|591|102/427|240|39	1756|706	0.13	0.9350661	2	1.00	0.83	1.21	0.93	0.63	1.37
WHS	2	0.221|0.242	410|233|33/305|221|22	676|548	4.59	0.1006518	2	1.28	1.01	1.62	0.90	0.51	1.57
PBCS 1+2	20	0.226|0.226	1362|776|124/640|355|61	2262|1056	0.38	0.8264424	2	0.97	0.82	1.13	1.06	0.77	1.47

Locus rs998592 Alleles G|A Chr 16p13.13 Location Neighborhood 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	--------------	--------------	--------	------------	-----------------

STAGE1-3	17	0.425|0.417	2956|4239|1625|1696|2557|852	8820|5105	10.00	0.0067232	2	1.03	0.96	1.12	0.88	0.80	0.98
NHS	5	0.424|0.429	405|502|232|253|415|139	1139|807	10.05	0.0065715	2	1.31	1.07	1.61	0.95	0.73	1.24
STAGE1-2	14	0.436|0.424	1716|2524|1042|1133|1787|597	5282|3517	13.40	0.0012318	2	1.06	0.96	1.17	0.85	0.75	0.97
STAGE2	19	0.440|0.422	1311|2022|810|880|1372|458	4143|2710	8.72	0.0127725	2	1.00	0.89	1.11	0.82	0.71	0.95
CPSII	4	0.475|0.416	158|254|131|107|155|54	543|316	5.44	0.0658594	2	0.90	0.65	1.24	0.63	0.42	0.94
PBCS1	8	0.415|0.368	186|220|100|141|164|48	506|353	4.82	0.0897233	2	0.94	0.69	1.27	0.64	0.42	0.96
PLCO	13	0.419|0.393	324|485|166|162|220|66	975|448	2.03	0.3621779	2	0.89	0.69	1.15	0.78	0.55	1.11
WHI	22	0.450|0.444	729|1192|488|517|903|322	2409|1742	2.91	0.2335718	2	1.07	0.93	1.23	0.93	0.78	1.11
STAGE3	21	0.407|0.403	1240|1715|584|563|771|255	3539|1589	0.28	0.8708136	2	0.98	0.86	1.12	0.95	0.80	1.14
NHS2	20	0.417|0.425	378|542|193|115|159|64	1113|338	0.47	0.7905375	2	0.96	0.73	1.27	1.08	0.76	1.54
PBCS2	12	0.400|0.386	625|849|274|266|333|105	1748|704	1.03	0.5985685	2	0.92	0.76	1.11	0.89	0.68	1.17
WHS	16	0.412|0.412	237|324|117|182|279|86	678|547	1.18	0.5552025	2	1.11	0.86	1.43	0.95	0.68	1.34
PBCS 1+2	8	0.403|0.380	811|1069|373|407|496|153	2253|1056	3.63	0.1630679	2	0.93	0.79	1.09	0.80	0.64	1.01

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% t	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	18	0.259|0.282	2201|1519|277|978|787|146	3997|1911	7.82	0.0200736	2	1.17	1.04	1.32	1.18	0.95	1.46
STAGE3	2	0.259|0.278	1945|1325|250|817|646|116	3520|1579	6.40	0.0408197	2	1.18	1.04	1.34	1.11	0.87	1.41
NHS2	10	0.256|0.285	607|415|73|173|133|29	1095|335	2.31	0.3143273	2	1.12	0.87	1.46	1.21	0.88	2.21
PBCS2	2	0.259|0.288	969|667|121|350|308|50	1757|708	6.92	0.0314154	2	1.28	1.06	1.53	1.17	0.82	1.66
WHS	17	0.266|0.260	369|243|56|294|205|37	668|536	1.11	0.5730079	2	1.06	0.84	1.35	0.84	0.54	1.30
PBCS 1+2	2	0.259|0.293	1225|861|148|511|449|80	2234|1040	8.43	0.0147405	2	1.24	1.06	1.45	1.28	0.96	1.72

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% t	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	19	0.324|0.335	4021|3887|916|2294|2211|606	8824|5111	7.24	0.0268108	2	1.00	0.93	1.08	1.16	1.04	1.31
NHS	18	0.318|0.328	524|509|108|373|339|95	1141|807	2.97	0.2267303	2	0.93	0.77	1.13	1.22	0.90	1.66
STAGE1-2	23	0.325|0.337	2407|2311|562|1564|1530|419	5280|3513	3.35	0.1868786	2	1.02	0.93	1.12	1.14	0.99	1.32
STAGE2	23	0.327|0.340	1883|1802|454|1191|1191|324	4139|2706	2.11	0.3481057	2	1.05	0.94	1.16	1.12	0.95	1.32
CPSII	22	0.334|0.340	243|231|64|139|138|38	538|315	0.14	0.9332502	2	1.04	0.77	1.41	1.08	0.68	1.71
PBCS1	20	0.319|0.326	229|228|47|161|150|39	504|350	0.98	0.6120757	2	0.91	0.68	1.22	1.14	0.71	1.84
PLCO	6	0.335|0.334	440|417|118|190|215|42	975|447	5.33	0.0695377	2	1.18	0.93	1.50	0.76	0.51	1.13
WHI	18	0.326|0.343	1097|1051|260|768|753|221	2408|1742	4.18	0.1239027	2	1.03	0.90	1.17	1.23	1.01	1.51
STAGE3	5	0.322|0.331	1613|1577|354|727|682|187	3544|1596	4.39	0.1112683	2	0.95	0.84	1.08	1.19	0.97	1.45
NHS2	17	0.317|0.324	518|491|109|160|145|39	1118|344	0.82	0.6635111	2	0.96	0.74	1.24	1.16	0.77	1.74
PBCS2	9	0.330|0.330	789|789|189|326|301|84	1767|711	1.40	0.4962023	2	0.92	0.76	1.11	1.08	0.81	1.44
WHS	7	0.310|0.336	306|297|56|241|236|64	659|541	3.51	0.1732773	2	1.01	0.79	1.28	1.44	0.97	2.14
PBCS 1+2	11	0.328|0.327	1019|1016|236|490|450|123	2271|1063	2.22	0.3288087	2	0.92	0.79	1.08	1.10	0.86	1.40

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% t	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	20	0.451|0.434	2683|4344|1810|1648|2482|973	8837|5103	7.23	0.0269016	2	0.93	0.86	1.00	0.88	0.79	0.97
NHS	15	0.470|0.436	312|585|244|261|388|158	1141|807	5.56	0.0620887	2	0.79	0.64	0.98	0.78	0.60	1.01
STAGE1-2	19	0.454|0.429	1574|2618|1092|1164|1687|665	5284|3516	11.95	0.0025446	2	0.87	0.79	0.96	0.82	0.73	0.93
STAGE2	20	0.450|0.427	1262|2033|848|903|1299|507	4143|2709	7.37	0.0250861	2	0.89	0.80	1.00	0.83	0.72	0.96
CPSII	14	0.471|0.440	152|271|120|101|152|63	543|316	1.76	0.4139121	2	0.83	0.60	1.15	0.78	0.53	1.17
PBCS1	21	0.483|0.457	138|247|121|104|174|74	506|352	0.59	0.7456094	2	0.98	0.71	1.36	0.87	0.59	1.28
PLCO	1	0.449|0.391	298|478|199|167|212|69	975|448	8.35	0.0154007	2	0.78	0.61	1.01	0.62	0.44	0.87

WHI	23	0.443|0.428	755|1175|479/579|835|328	2409|1742	1.97	0.373328	2	0.93	0.80	1.06	0.89	0.74	1.06
STAGE3	17	0.445|0.445	1109|1730|719/484|795|309	3558|1588	0.78	0.678235	2	1.05	0.92	1.21	0.99	0.83	1.18
NHS2	18	0.440|0.432	363|535|227/106|166|61	1125|333	0.68	0.7125768	2	1.05	0.80	1.39	0.92	0.64	1.31
PBCS2	16	0.457|0.451	518|863|368/211|357|141	1749|709	0.57	0.7510604	2	1.01	0.83	1.24	0.93	0.72	1.20
WHS	14	0.424|0.445	228|332|124/167|272|107	684|546	1.35	0.5097867	2	1.11	0.86	1.44	1.21	0.87	1.67
PBCS 1+2	14	0.463|0.452	656|1106|488/315|531|214	2250|1060	1.41	0.4950597	2	0.99	0.84	1.18	0.89	0.72	1.10

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.258|0.250	4826|3425|560/2885|1879|337	8811|5101	6.57	0.0375011	2	0.91	0.85	0.98	1.01	0.88	1.17
NHS	19	0.256|0.247	634|430|77/470|276|61	1141|807	2.75	0.252558	2	0.86	0.71	1.04	1.06	0.74	1.52
STAGE1-2	16	0.263|0.247	2851|2086|344/2020|1258|238	5281|3516	12.69	0.0017539	2	0.85	0.78	0.93	0.98	0.82	1.17
STAGE2	16	0.264|0.247	2217|1656|267/1550|982|177	4140|2709	10.17	0.0062026	2	0.85	0.76	0.94	0.96	0.78	1.17
CPSII	2	0.266|0.222	286|224|32/197|98|21	542|316	9.11	0.0104966	2	0.63	0.47	0.85	0.92	0.51	1.66
PBCS1	16	0.247|0.229	284|193|28/212|119|21	505|352	1.81	0.4049353	2	0.82	0.61	1.10	1.03	0.56	1.89
PLCO	15	0.263|0.253	526|385|64/254|161|33	975|448	1.98	0.3719405	2	0.85	0.67	1.08	1.06	0.67	1.66
WHI	15	0.270|0.249	1272|973|163/983|649|110	2408|1742	5.06	0.0797501	2	0.87	0.76	0.99	0.88	0.68	1.13
STAGE3	18	0.251|0.258	1975|1339|216/865|621|98	3530|1584	0.72	0.6982153	2	1.05	0.92	1.19	1.08	0.83	1.39
NHS2	7	0.266|0.239	598|438|77/198|117|22	1113|337	2.75	0.2527845	2	0.81	0.62	1.04	0.86	0.52	1.42
PBCS2	4	0.245|0.268	993|643|105/372|282|47	1741|701	2.81	0.2453943	2	1.16	0.96	1.39	1.20	0.83	1.72
WHS	18	0.241|0.256	384|258|34/295|222|29	676|546	0.91	0.6331963	2	1.12	0.88	1.41	1.11	0.66	1.87
PBCS 1+2	18	0.245|0.256	1277|836|133/584|401|69	2246|1054	0.95	0.6205492	2	1.04	0.89	1.22	1.15	0.85	1.57

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.261|0.273	4211|2933|535/2281|1695|328	7679|4304	4.70	0.0952238	2	1.07	0.98	1.15	1.15	0.99	1.33
STAGE1-2	21	0.252|0.275	2304|1588|250/1429|1071|209	4142|2709	9.52	0.0085773	2	1.09	0.98	1.21	1.34	1.10	1.63
STAGE2	18	0.252|0.275	2304|1588|250/1429|1071|209	4142|2709	9.44	0.0089134	2	1.09	0.98	1.21	1.34	1.10	1.63
CPSII	20	0.247|0.266	309|198|35/173|118|25	542|316	0.77	0.6805392	2	1.11	0.83	1.50	1.21	0.69	2.09
PBCS1	17	0.246|0.265	293|177|36/198|123|32	506|353	1.46	0.4830701	2	1.05	0.78	1.41	1.37	0.82	2.31
PLCO	4	0.230|0.271	569|364|42/235|182|30	975|447	5.72	0.0573307	2	1.22	0.97	1.55	1.68	1.01	2.77
WHI	21	0.263|0.280	1302|949|158/901|708|133	2409|1742	3.24	0.1976143	2	1.08	0.95	1.23	1.23	0.96	1.57
STAGE3	16	0.271|0.270	1907|1349|285/852|624|119	3541|1595	0.86	0.6493833	2	1.04	0.92	1.18	0.94	0.74	1.19
NHS2	15	0.269|0.281	611|397|100/176|134|28	1108|338	1.61	0.4461014	2	1.17	0.90	1.52	0.97	0.62	1.53
PBCS2	17	0.273|0.265	926|696|131/381|280|48	1753|709	0.50	0.779063	2	0.98	0.82	1.18	0.88	0.62	1.25
WHS	23	0.268|0.270	370|256|54/295|210|43	680|548	0.07	0.9678248	2	1.03	0.81	1.31	1.02	0.67	1.57
PBCS 1+2	23	0.267|0.265	1219|869|167/579|403|80	2255|1062	0.01	0.9974029	2	1.00	0.85	1.16	1.00	0.75	1.34

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.372|0.367	3513|4015|1265/2027|2376|676	8793|5079	3.07	0.2157086	2	1.02	0.95	1.10	0.93	0.83	1.04
NHS	20	0.371|0.366	452|529|159/323|377|107	1140|807	0.26	0.879983	2	1.02	0.84	1.24	0.95	0.71	1.26
STAGE1-2	18	0.375|0.364	2110|2378|788/1393|1684|438	5276|3515	11.95	0.0025414	2	1.07	0.97	1.17	0.84	0.74	0.97
STAGE2	11	0.376|0.364	1658|1849|629/1070|1307|331	4136|2708	13.26	0.0013179	2	1.08	0.97	1.20	0.82	0.70	0.95
CPSII	5	0.371|0.339	217|240|79/132|150|31	536|313	4.63	0.0989282	2	1.02	0.76	1.38	0.62	0.39	1.00
PBCS1	2	0.387|0.375	195|230|81/125|190|37	506|352	7.84	0.0198724	2	1.28	0.95	1.73	0.71	0.45	1.12
PLCO	8	0.376|0.360	398|416|157/180|213|55	971|448	3.85	0.1461524	2	1.09	0.85	1.39	0.77	0.54	1.10
WHI	19	0.372|0.365	971|1084|353/693|828|221	2408|1742	4.11	0.1281107	2	1.07	0.93	1.22	0.88	0.72	1.07

STAGE3	8	0.369|0.373	1403|1641|477|634|693|238	3521|1565	3.84	0.1463487	2	0.93	0.82	1.06	1.11	0.92	1.34
NHS2	2	0.341|0.392	493|477|140|129|154|56	1110|339	6.02	0.0492348	2	1.24	0.95	1.62	1.55	1.07	2.23
PBCS2	3	0.380|0.381	656|853|236|275|321|108	1745|704	3.26	0.1963425	2	0.89	0.73	1.08	1.11	0.85	1.46
WHS	3	0.385|0.351	254|311|101|230|218|74	666|522	4.14	0.1259678	2	0.78	0.61	1.00	0.81	0.57	1.16
PBCS 1+2	22	0.381|0.379	851|1079|317|400|510|145	2247|1055	0.03	0.9859684	2	1.00	0.85	1.18	0.98	0.78	1.24

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.395|0.385	2822|3643|1205|1621|2044|634	7670|4299	2.32	0.314065	2	0.97	0.90	1.06	0.91	0.81	1.03
STAGE1-2	22	0.398|0.383	1509|1968|666|1028|1286|396	4143|2710	3.38	0.1846378	2	0.95	0.86	1.06	0.87	0.75	1.01
STAGE2	22	0.398|0.383	1509|1968|666|1028|1286|396	4143|2710	3.40	0.1824638	2	0.95	0.86	1.06	0.87	0.75	1.01
CPSII	3	0.394|0.413	201|256|86|96|179|41	543|316	6.50	0.0387617	2	1.43	1.05	1.95	0.97	0.62	1.52
PBCS1	15	0.409|0.375	176|246|84|140|161|52	506|353	2.75	0.2522101	2	0.78	0.58	1.06	0.79	0.52	1.20
PLCO	14	0.393|0.394	355|474|146|170|203|75	975|448	2.01	0.3665339	2	0.87	0.68	1.11	1.06	0.76	1.49
WHI	20	0.397|0.378	890|1125|394|672|822|248	2409|1742	3.74	0.1542724	2	0.97	0.85	1.11	0.83	0.69	1.01
STAGE3	24	0.390|0.388	1315|1676|539|593|760|238	3530|1591	0.10	0.9517818	2	1.01	0.89	1.15	0.98	0.82	1.18
NHS2	8	0.382|0.370	428|504|169|128|165|41	1101|334	2.46	0.2921723	2	1.10	0.84	1.43	0.81	0.55	1.20
PBCS2	8	0.399|0.398	621|858|268|263|330|118	1747|711	1.41	0.4947083	2	0.91	0.75	1.11	1.04	0.80	1.35
WHS	19	0.380|0.387	266|314|102|202|265|79	682|546	0.68	0.7127003	2	1.11	0.87	1.42	1.03	0.73	1.46
PBCS 1+2	9	0.402|0.390	795|1103|352|403|489|170	2250|1062	2.69	0.2607758	2	0.88	0.74	1.03	0.96	0.77	1.19

adj_trend

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.395|0.441	3255|4114|1412|1590|2476|993	8781|5059	49.27	2.229E-12	1	1.20	1.14	1.26	1.43	1.29	1.58
NHS	1	0.388|0.448	425|540|170|238|411|155	1135|804	14.24	0.0001609	1	1.29	1.13	1.47	1.66	1.27	2.16
STAGE1-2	1	0.403|0.443	1899|2491|874|1070|1756|674	5264|3500	28.98	7.317E-08	1	1.18	1.11	1.26	1.40	1.24	1.59
STAGE2	2	0.407|0.442	1474|1951|704|832|1345|519	4129|2696	16.80	0.00004162	1	1.16	1.08	1.24	1.34	1.16	1.54
CPSII	10	0.378|0.405	220|235|88|108|159|48	543|315	0.82	0.3664292	1	1.10	0.90	1.34	1.20	0.81	1.79
PBCS1	14	0.387|0.407	195|230|81|124|171|58	506|353	0.51	0.4764589	1	1.07	0.88	1.31	1.15	0.78	1.71
PLCO	17	0.420|0.427	324|476|169|140|232|75	969|447	0.22	0.6388939	1	1.04	0.88	1.23	1.08	0.78	1.50
WHI	1	0.407|0.455	857|1133|411|514|857|359	2401|1730	19.12	0.00001228	1	1.22	1.11	1.33	1.48	1.24	1.77
STAGE3	1	0.383|0.436	1360|1625|538|520|720|319	3523|1559	18.94	0.00001348	1	1.21	1.11	1.32	1.46	1.23	1.74
NHS2	2	0.395|0.446	418|522|182|107|147|72	1122|326	5.35	0.0207293	1	1.23	1.03	1.46	1.50	1.06	2.12
PBCS2	1	0.362|0.410	719|778|240|246|324|121	1737|691	9.23	0.0023815	1	1.22	1.07	1.38	1.48	1.15	1.91
WHS	1	0.419|0.462	223|325|116|167|249|126	664|542	4.40	0.0358692	1	1.19	1.01	1.39	1.41	1.02	1.94
PBCS 1+2	1	0.368|0.409	910|1006|321|370|495|179	2237|1044	8.53	0.0035025	1	1.17	1.05	1.30	1.37	1.11	1.69

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.220|0.243	5382|3016|434|2950|1835|322	8832|5107	18.05	0.00002153	1	1.13	1.07	1.20	1.29	1.15	1.44
NHS	5	0.215|0.253	693|401|44|451|303|53	1138|807	7.85	0.0050801	1	1.24	1.07	1.45	1.55	1.14	2.10
STAGE1-2	2	0.216|0.248	3227|1822|226|2015|1256|243	5275|3514	24.06	0.000000933	1	1.20	1.11	1.29	1.43	1.24	1.65
STAGE2	3	0.216|0.246	2534|1421|182|1564|953|190	4137|2707	16.52	0.0000481	1	1.18	1.09	1.28	1.40	1.19	1.65
CPSII	16	0.225|0.241	325|192|26|186|108|22	543|316	0.28	0.5994387	1	1.06	0.84	1.34	1.13	0.71	1.80
PBCS1	2	0.217|0.272	308|173|23|186|139|26	504|351	6.02	0.0141666	1	1.33	1.06	1.67	1.77	1.12	2.80
PLCO	15	0.223|0.232	577|359|37|261|166|21	973|448	0.42	5.18E-01	1	1.06	0.87	1.29	1.13	0.76	1.67
WHI	3	0.212|0.248	1499|797|111|1010|600|131	2407|1741	14.39	0.0001488	1	1.22	1.10	1.35	1.48	1.21	1.82

STAGE3	17	0.226|0.231	2155|1196|208|936|581|78	3559|1595	0.29	0.5898268	1	1.03	0.93	1.14	1.06	0.86	1.29
NHS2	23	0.229|0.230	676|383|66|198|126|15	1125|339	0.00	0.9472513	1	1.01	0.82	1.23	1.01	0.68	1.52
PBCS2	10	0.223|0.233	1070|586|98|417|254|38	1754|709	0.64	0.4234571	1	1.06	0.92	1.23	1.13	0.84	1.51
WHS	22	0.232|0.229	409|227|44|321|201|25	680|547	0.01	0.9260212	1	0.99	0.82	1.20	0.98	0.67	1.43
PBCS 1+2	3	0.221|0.246	1378|757|121|602|391|65	2256|1058	4.29	0.0382396	1	1.14	1.01	1.28	1.29	1.01	1.65

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.238|0.215	5166|3096|548|3130|1743|227	8810|5100	16.75	0.00004275	1	0.88	0.83	0.94	0.78	0.69	0.88
NHS	7	0.244|0.209	660|405|76|499|278|30	1141|807	6.28	0.0122422	1	0.82	0.70	0.96	0.67	0.50	0.92
STAGE1-2	7	0.239|0.211	3092|1862|330|2185|1182|150	5284|3517	17.59	0.00002736	1	0.86	0.80	0.92	0.73	0.63	0.85
STAGE2	7	0.237|0.211	2432|1457|254|1686|904|120	4143|2710	11.78	0.0005999	1	0.86	0.80	0.94	0.75	0.63	0.88
CPSII	15	0.235|0.223	319|193|31|193|105|18	543|316	0.29	0.5877089	1	0.94	0.74	1.18	0.88	0.55	1.40
PBCS1	4	0.242|0.203	291|185|30|219|125|9	506|353	4.13	0.0422054	1	0.78	0.61	0.99	0.61	0.37	0.98
PLCO	16	0.238|0.225	576|334|65|262|170|16	975|448	0.41	0.5215631	1	0.94	0.78	1.14	0.88	0.60	1.29
WHI	6	0.235|0.208	1416|854|139|1100|559|83	2409|1742	8.34	0.0038806	1	0.86	0.77	0.95	0.73	0.59	0.91
STAGE3	6	0.237|0.226	2075|1237|218|946|562|77	3530|1585	1.36	0.243497	1	0.94	0.85	1.04	0.89	0.73	1.09
NHS2	24	0.234|0.233	664|362|77|198|115|20	1103|333	0.00	0.9874734	1	1.00	0.82	1.22	1.00	0.67	1.48
PBCS2	11	0.236|0.224	1016|637|94|422|248|34	1747|704	0.61	0.4330622	1	0.94	0.81	1.09	0.89	0.66	1.20
WHS	8	0.244|0.224	395|238|47|326|199|23	680|548	1.42	0.2328094	1	0.89	0.74	1.08	0.80	0.55	1.16
PBCS 1+2	7	0.237|0.217	1306|819|124|640|372|43	2249|1055	3.12	0.077288	1	0.89	0.79	1.01	0.80	0.62	1.03

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.094|0.109	7261|1521|74|4054|1012|52	8856|5118	16.05	0.00006178	1	1.18	1.09	1.28	1.40	1.19	1.65
NHS	10	0.085|0.108	951|185|5|642|155|10	1141|807	6.01	0.0142552	1	1.32	1.06	1.64	1.73	1.11	2.68
STAGE1-2	5	0.089|0.110	4388|849|47|2781|693|41	5284|3515	18.57	0.00001634	1	1.25	1.13	1.38	1.56	1.27	1.91
STAGE2	5	0.090|0.111	3437|664|42|2139|538|31	4143|2708	13.02	0.0003008	1	1.23	1.10	1.38	1.52	1.21	1.92
CPSII	12	0.099|0.111	444|90|9|250|62|4	543|316	0.68	0.4112802	1	1.14	0.83	1.56	1.30	0.69	2.44
PBCS1	7	0.094|0.123	417|83|6|270|79|4	506|353	3.16	0.0753782	1	1.33	0.97	1.82	1.77	0.94	3.31
PLCO	3	0.077|0.106	832|135|8|357|87|4	975|448	5.51	0.0189466	1	1.38	1.05	1.82	1.92	1.11	3.31
WHI	8	0.094|0.110	1982|403|24|1378|341|21	2409|1740	6.10	0.0135564	1	1.20	1.04	1.39	1.44	1.08	1.93
STAGE3	13	0.102|0.106	2873|673|27|1275|319|11	3573|1605	0.61	0.4341663	1	1.06	0.92	1.22	1.12	0.84	1.49
NHS2	20	0.103|0.099	905|207|12|280|56|6	1124|342	0.06	0.8012497	1	0.96	0.73	1.28	0.93	0.53	1.64
PBCS2	18	0.104|0.107	1412|338|15|565|143|5	1765|713	0.10	0.7546111	1	1.03	0.84	1.27	1.07	0.71	1.61
WHS	6	0.094|0.109	556|128|0|430|120|0	684|550	1.60	0.2065859	1	1.20	0.91	1.58	1.43	0.82	2.51
PBCS 1+2	9	0.102|0.113	1829|420|21|833|222|9	2270|1064	1.75	0.1857734	1	1.12	0.95	1.33	1.26	0.90	1.76

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.136|0.121	6618|2036|188|3939|1089|75	8842|5103	15.48	0.00008342	1	0.86	0.80	0.93	0.74	0.64	0.86
NHS	4	0.153|0.121	818|296|27|624|169|13	1141|806	9.01	0.0026827	1	0.75	0.62	0.91	0.56	0.38	0.82
STAGE1-2	6	0.143|0.122	3887|1281|116|2710|757|49	5284|3516	17.92	0.00002307	1	0.82	0.75	0.90	0.68	0.57	0.81
STAGE2	8	0.140|0.122	3069|985|89|2086|588|36	4143|2710	10.08	0.0014998	1	0.85	0.76	0.94	0.72	0.58	0.88
CPSII	6	0.140|0.114	398|138|7|250|60|6	543|316	1.61	0.2046882	1	0.82	0.60	1.11	0.67	0.36	1.24
PBCS1	1	0.153|0.110	364|129|13|278|72|3	506|353	6.04	0.0140042	1	0.69	0.51	0.93	0.48	0.26	0.86
PLCO	8	0.132|0.116	738|216|21|348|96|4	975|448	1.49	0.2221232	1	0.86	0.67	1.10	0.74	0.45	1.20
WHI	14	0.141|0.126	1783|572|54|1330|386|26	2409|1742	3.99	0.0458357	1	0.88	0.77	1.00	0.77	0.60	1.00

STAGE3	9	0.127|0.122	2733|758|72/1229|335|26	3563|1590	0.72	0.3974156	1	0.95	0.83	1.08	0.90	0.69	1.16
NHS2	14	0.126|0.118	869|243|21/261|69|5	1133|335	0.25	0.6138532	1	0.93	0.72	1.22	0.87	0.52	1.48
PBCS2	17	0.124|0.119	1344|368|32/554|145|12	1744|711	0.24	0.6238349	1	0.95	0.79	1.15	0.91	0.62	1.33
WHS	14	0.135|0.128	520|147|19/414|121|9	686|544	0.26	0.6098418	1	0.94	0.75	1.19	0.89	0.56	1.41
PBCS 1+2	5	0.130|0.115	1706|494|45/832|214|15	2245|1061	3.54	0.0598929	1	0.86	0.73	1.01	0.74	0.54	1.01

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.407|0.431	3135|4180|1492/1673|2433|970	8807|5076	15.26	0.00009379	1	1.10	1.05	1.16	1.22	1.10	1.35
NHS	6	0.392|0.437	429|513|185/240|421|139	1127|800	7.53	0.0060766	1	1.20	1.05	1.37	1.44	1.11	1.88
STAGE1-2	9	0.401|0.429	1895|2517|857/1154|1698|657	5269|3509	12.64	0.0003767	1	1.12	1.05	1.19	1.25	1.11	1.41
STAGE2	12	0.404|0.427	1466|2004|672/914|1277|518	4142|2709	6.51	0.010729	1	1.10	1.02	1.17	1.20	1.04	1.38
CPSII	3	0.427|0.389	178|265|99/121|144|51	542|316	2.69	0.1009002	1	0.85	0.69	1.03	0.71	0.48	1.07
PBCS1	5	0.410|0.463	174|249|83/97|185|71	506|353	4.01	0.0453369	1	1.23	1.00	1.50	1.51	1.01	2.25
PLCO	20	0.408|0.407	339|475|160/163|205|80	974|448	0.04	0.8373449	1	0.98	0.84	1.16	0.97	0.70	1.34
WHI	7	0.400|0.429	866|1158|385/588|813|340	2409|1741	7.09	0.0077327	1	1.13	1.03	1.23	1.27	1.07	1.52
STAGE3	3	0.415|0.435	1240|1666|636/520|739|315	3542|1574	3.73	0.0532981	1	1.09	1.00	1.18	1.18	1.00	1.40
NHS2	3	0.402|0.449	413|517|193/105|156|71	1123|332	4.36	0.0368712	1	1.20	1.01	1.42	1.44	1.02	2.03
PBCS2	7	0.424|0.440	593|833|328/226|346|140	1754|712	0.99	0.3190255	1	1.06	0.94	1.20	1.13	0.89	1.45
WHS	18	0.411|0.420	234|316|115/189|237|104	665|530	0.19	0.6628552	1	1.04	0.88	1.22	1.07	0.78	1.48
PBCS 1+2	4	0.421|0.447	767|1079|410/322|527|209	2256|1058	3.63	0.0568797	1	1.11	1.00	1.23	1.23	0.99	1.51

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.352|0.377	3704|4014|1097/2017|2314|764	8815|5095	15.20	0.00009667	1	1.11	1.05	1.16	1.23	1.11	1.36
NHS	14	0.356|0.375	459|551|130/325|359|123	1140|807	1.17	0.2802203	1	1.08	0.94	1.23	1.16	0.89	1.51
STAGE1-2	8	0.348|0.377	2226|2432|625/1401|1579|536	5283|3516	13.07	0.0002993	1	1.12	1.05	1.20	1.26	1.11	1.43
STAGE2	6	0.346|0.378	1767|1881|495/1076|1220|413	4143|2709	12.30	0.000454	1	1.14	1.06	1.22	1.29	1.12	1.49
CPSII	23	0.350|0.351	220|266|57/137|136|43	543|316	0.00	0.9673399	1	1.00	0.81	1.23	0.99	0.65	1.51
PBCS1	16	0.345|0.364	216|231|59/147|154|51	506|352	0.45	0.5030632	1	1.07	0.88	1.31	1.15	0.77	1.72
PLCO	4	0.333|0.376	437|427|111/170|219|59	975|448	4.23	0.0396606	1	1.19	1.01	1.41	1.42	1.02	1.99
WHI	5	0.351|0.384	1018|1093|298/682|781|279	2409|1742	9.67	0.0018727	1	1.15	1.05	1.26	1.33	1.11	1.59
STAGE3	4	0.358|0.377	1479|1586|472/617|735|228	3537|1580	2.68	0.1018351	1	1.08	0.99	1.17	1.16	0.97	1.38
NHS2	22	0.368|0.371	459|501|163/139|147|52	1123|338	0.02	0.8996766	1	1.01	0.85	1.20	1.02	0.72	1.45
PBCS2	6	0.349|0.365	744|779|218/286|322|96	1741|704	1.01	0.3154593	1	1.07	0.94	1.22	1.14	0.88	1.48
WHS	2	0.363|0.396	276|306|91/192|266|80	673|538	3.30	0.0694087	1	1.17	0.99	1.38	1.36	0.98	1.90
PBCS 1+2	8	0.348|0.365	959|1006|277/432|476|147	2242|1055	1.93	0.1647897	1	1.08	0.97	1.20	1.17	0.94	1.45

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.160|0.176	6228|2348|240/3497|1411|190	8816|5098	13.07	0.0002996	1	1.13	1.06	1.20	1.27	1.12	1.45
NHS	9	0.151|0.179	814|310|17/542|240|24	1141|806	6.05	0.0139364	1	1.25	1.05	1.49	1.55	1.09	2.21
STAGE1-2	4	0.150|0.175	3805|1374|105/2412|975|129	5284|3516	19.63	0.000009395	1	1.20	1.11	1.31	1.45	1.23	1.71
STAGE2	4	0.150|0.174	2991|1064|88/1870|735|105	4143|2710	13.59	0.000227	1	1.19	1.08	1.31	1.42	1.18	1.71
CPSII	20	0.159|0.171	383|147|13/221|82|13	543|316	0.10	0.7567934	1	1.04	0.80	1.36	1.09	0.64	1.84
PBCS1	3	0.191|0.231	335|149|22/208|127|18	506|353	4.42	0.0355809	1	1.29	1.02	1.63	1.66	1.03	2.66
PLCO	13	0.144|0.156	714|241|20/322|112|14	975|448	0.46	0.4996842	1	1.08	0.86	1.35	1.16	0.75	1.81
WHI	4	0.143|0.170	1761|606|42/1216|460|66	2409|1742	10.98	0.0009207	1	1.22	1.09	1.38	1.50	1.18	1.90

STAGE3	20	0.176|0.177	2423|975|135|1085|437|61	3533|1583	0.12	0.7241841	1	1.02	0.91	1.14	1.04	0.84	1.29
NHS2	15	0.169|0.161	777|292|42|240|79|14	1111|333	0.25	0.6191556	1	0.94	0.75	1.18	0.89	0.57	1.40
PBCS2	21	0.190|0.188	1158|519|73|467|211|27	1750|705	0.01	0.9040873	1	0.99	0.85	1.16	0.98	0.72	1.34
WHS	5	0.152|0.172	488|164|20|378|147|20	672|545	1.72	0.1898069	1	1.15	0.93	1.42	1.33	0.87	2.03
PBCS 1+2	15	0.190|0.202	1493|667|95|675|337|45	2255|1057	0.85	0.3558591	1	1.06	0.93	1.21	1.13	0.87	1.46

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.034|0.026	8222|583|10|4833|251|9	8815|5093	11.57	0.0006714	1	0.78	0.67	0.90	0.60	0.45	0.81
NHS	13	0.034|0.026	1063|78|0|765|42|0	1141|807	2.04	0.1528149	1	0.75	0.51	1.11	0.57	0.26	1.24
STAGE1-2	11	0.034|0.025	4926|356|2|3341|174|2	5284|3517	11.09	0.0008663	1	0.73	0.61	0.88	0.53	0.37	0.77
STAGE2	9	0.034|0.025	3863|278|2|2576|132|2	4143|2710	9.10	0.0025546	1	0.72	0.59	0.89	0.53	0.34	0.80
CPSII	5	0.030|0.019	510|33|0|305|10|1	543|316	1.81	0.1782591	1	0.63	0.32	1.24	0.40	0.10	1.54
PBCS1	10	0.033|0.024	473|33|0|336|17|0	506|353	1.53	0.2160677	1	0.68	0.37	1.25	0.46	0.14	1.57
PLCO	7	0.036|0.026	906|68|1|425|23|0	975|448	1.97	0.1603545	1	0.71	0.44	1.15	0.50	0.19	1.32
WHI	9	0.034|0.025	2245|163|1|1655|86|1	2409|1742	5.82	0.0158014	1	0.72	0.55	0.94	0.52	0.31	0.89
STAGE3	5	0.034|0.029	3296|227|8|1493|77|7	3531|1577	1.46	0.2270283	1	0.86	0.68	1.10	0.74	0.46	1.20
NHS2	8	0.039|0.030	1029|77|5|321|14|3	1111|338	1.16	0.2816549	1	0.77	0.48	1.24	0.60	0.23	1.53
PBCS2	12	0.032|0.028	1648|112|1|669|40|0	1761|709	0.45	0.5017352	1	0.88	0.61	1.28	0.78	0.37	1.63
WHS	19	0.032|0.029	619|38|2|503|23|4	659|530	0.06	0.799899	1	0.94	0.61	1.47	0.89	0.37	2.17
PBCS 1+2	12	0.032|0.027	2121|145|1|1004|57|0	2267|1061	1.38	0.2407403	1	0.83	0.60	1.14	0.69	0.36	1.29

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.208|0.224	5507|2905|379|3076|1762|263	8791|5101	10.71	0.001066	1	1.11	1.04	1.17	1.22	1.08	1.38
NHS	2	0.204|0.245	718|381|42|457|304|46	1141|807	10.43	0.0012406	1	1.29	1.11	1.51	1.67	1.22	2.28
STAGE1-2	10	0.208|0.229	3285|1798|201|2104|1217|196	5284|3517	12.03	0.0005249	1	1.14	1.06	1.23	1.30	1.12	1.51
STAGE2	17	0.209|0.224	2567|1417|159|1647|913|150	4143|2710	4.75	0.0292427	1	1.10	1.01	1.19	1.21	1.02	1.43
CPSII	21	0.196|0.201	343|187|13|203|99|14	543|316	0.07	0.7916021	1	1.04	0.80	1.34	1.07	0.64	1.78
PBCS1	20	0.210|0.215	310|179|17|223|108|22	506|353	0.04	0.8403297	1	1.02	0.81	1.30	1.05	0.65	1.69
PLCO	9	0.220|0.238	599|323|53|259|165|24	975|448	1.48	0.2230441	1	1.12	0.93	1.36	1.26	0.87	1.84
WHI	11	0.206|0.225	1501|825|83|1053|594|95	2409|1742	4.67	0.0306361	1	1.13	1.01	1.25	1.27	1.02	1.57
STAGE3	15	0.209|0.214	2222|1108|178|972|545|67	3508|1584	0.35	0.5548943	1	1.03	0.93	1.14	1.06	0.87	1.31
NHS2	7	0.208|0.229	694|332|60|194|119|16	1086|329	1.38	0.2409139	1	1.13	0.92	1.39	1.28	0.85	1.92
PBCS2	24	0.208|0.210	1111|557|86|448|228|35	1754|711	0.00	0.9905603	1	1.00	0.86	1.16	1.00	0.74	1.35
WHS	24	0.212|0.211	417|219|32|330|198|16	668|544	0.00	0.997584	1	1.00	0.82	1.22	1.00	0.67	1.49
PBCS 1+2	18	0.208|0.211	1421|735|103|671|336|57	2259|1064	0.06	0.8022459	1	1.02	0.90	1.15	1.03	0.80	1.33

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.227|0.243	5293|3091|463|2906|1906|288	8847|5100	10.01	0.0015576	1	1.10	1.04	1.16	1.21	1.07	1.36
NHS	3	0.220|0.262	689|402|50|433|325|49	1141|807	10.37	0.0012816	1	1.29	1.10	1.50	1.65	1.22	2.24
STAGE1-2	13	0.228|0.248	3133|1895|256|1984|1323|210	5284|3517	10.50	0.0011911	1	1.13	1.05	1.21	1.27	1.10	1.46
STAGE2	18	0.230|0.244	2444|1493|206|1551|998|161	4143|2710	3.77	0.0521358	1	1.08	1.00	1.18	1.18	1.00	1.38
CPSII	19	0.215|0.222	326|200|17|193|106|17	543|316	0.14	0.7111337	1	1.05	0.82	1.34	1.10	0.67	1.79
PBCS1	19	0.226|0.231	299|185|22|213|117|23	506|353	0.04	0.8346616	1	1.03	0.81	1.29	1.05	0.66	1.68
PLCO	11	0.236|0.253	578|334|63|247|175|26	975|448	1.22	0.2686033	1	1.11	0.92	1.33	1.23	0.85	1.78
WHI	13	0.229|0.247	1421|875|113|985|654|103	2409|1742	3.99	0.045719	1	1.11	1.00	1.23	1.23	1.00	1.52

STAGE3	10	0.226|0.234	2160|1196|207|922|585|79	3563|1586	0.70	0.4024152	1	1.04	0.94	1.15	1.09	0.89	1.33
NHS2	11	0.228|0.241	687|372|72|190|124|18	1131|332	0.47	0.4922571	1	1.07	0.88	1.31	1.15	0.77	1.71
PBCS2	19	0.226|0.225	1063|591|102|427|240|39	1756|706	0.06	0.8143252	1	0.98	0.85	1.14	0.97	0.72	1.29
WHS	7	0.221|0.242	410|233|33|305|221|22	676|548	1.51	0.218539	1	1.13	0.93	1.37	1.28	0.87	1.88
PBCS 1+2	22	0.226|0.226	1362|776|124|640|355|61	2262|1056	0.00	0.9500576	1	1.00	0.88	1.13	0.99	0.78	1.27

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.384|0.367	3358|3974|1348|2015|2294|686	8680|4995	9.68	0.0018643	1	0.92	0.88	0.97	0.85	0.77	0.94
NHS	8	0.399|0.362	403|541|177|333|343|115	1121|791	6.23	0.0125936	1	0.84	0.74	0.96	0.71	0.55	0.93
STAGE1-2	3	0.400|0.362	1731|2149|796|1268|1397|418	4676|3083	24.06	9.338E-07	1	0.85	0.79	0.91	0.72	0.63	0.82
STAGE2	1	0.400|0.362	1328|1608|619|935|1054|303	3555|2292	17.82	0.00002429	1	0.85	0.79	0.92	0.72	0.62	0.84
CPSII	8	0.387|0.355	199|251|79|131|139|41	529|311	1.37	0.2424311	1	0.88	0.72	1.09	0.78	0.52	1.18
PLCO	18	0.378|0.372	379|431|146|181|186|69	956|436	0.19	0.6622152	1	0.97	0.82	1.14	0.93	0.67	1.29
WHI	2	0.409|0.362	857|1064|430|680|800|212	2351|1692	18.17	0.00002023	1	0.82	0.75	0.90	0.68	0.56	0.81
STAGE3	12	0.366|0.374	1434|1610|490|618|750|218	3534|1586	0.65	0.419432	1	1.04	0.95	1.13	1.08	0.90	1.28
NHS2	4	0.366|0.404	457|508|157|122|166|56	1122|344	3.12	0.0775064	1	1.17	0.98	1.39	1.37	0.97	1.93
PBCS2	14	0.368|0.360	706|782|248|283|324|88	1736|695	0.32	0.5704565	1	0.96	0.85	1.10	0.93	0.72	1.20
WHS	13	0.362|0.373	271|320|85|213|260|74	676|547	0.33	0.5670119	1	1.05	0.89	1.24	1.10	0.79	1.54
PBCS 1+2	20	0.367|0.366	899|997|310|412|471|138	2206|1021	0.02	0.8772369	1	0.99	0.89	1.11	0.98	0.79	1.22

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.225|0.209	5271|3090|432|3197|1647|236	8793|5080	8.73	0.0031222	1	0.91	0.86	0.97	0.83	0.74	0.94
NHS	11	0.220|0.189	694|392|55|529|251|27	1141|807	5.06	0.0244329	1	0.83	0.71	0.98	0.69	0.50	0.95
STAGE1-2	14	0.220|0.200	3182|1875|227|2262|1101|152	5284|3515	10.49	0.0012028	1	0.88	0.82	0.95	0.78	0.67	0.91
STAGE2	13	0.220|0.203	2488|1483|172|1733|850|125	4143|2708	6.09	0.0135721	1	0.90	0.82	0.98	0.81	0.68	0.96
CPSII	17	0.217|0.213	323|203|16|201|94|20	542|315	0.17	0.6831867	1	0.95	0.74	1.22	0.90	0.55	1.48
PBCS1	21	0.244|0.249	284|197|25|204|121|27	506|352	0.01	0.9166892	1	1.01	0.81	1.27	1.02	0.65	1.61
PLCO	5	0.229|0.195	577|350|48|288|145|15	975|448	4.13	0.0420353	1	0.81	0.67	0.99	0.66	0.44	0.99
WHI	10	0.213|0.194	1476|838|95|1138|530|73	2409|1741	4.89	0.0270158	1	0.88	0.79	0.99	0.78	0.63	0.97
STAGE3	16	0.232|0.228	2090|1217|205|936|547|83	3512|1566	0.30	0.5812031	1	0.97	0.88	1.08	0.94	0.77	1.16
NHS2	10	0.200|0.216	712|332|53|202|112|15	1097|329	0.77	0.3810143	1	1.10	0.89	1.35	1.21	0.79	1.83
PBCS2	16	0.252|0.245	980|644|117|402|254|45	1741|701	0.26	0.6132154	1	0.96	0.83	1.11	0.93	0.70	1.24
WHS	9	0.231|0.212	398|241|35|332|181|23	674|536	1.36	0.24379	1	0.89	0.73	1.08	0.79	0.54	1.17
PBCS 1+2	19	0.250|0.247	1263|839|142|605|374|73	2244|1052	0.06	0.81222	1	0.99	0.87	1.11	0.97	0.76	1.23

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.451|0.434	2683|4344|1810|1648|2482|973	8837|5103	7.15	0.0074949	1	0.93	0.89	0.98	0.87	0.79	0.96
NHS	12	0.470|0.436	312|585|244|261|388|158	1141|807	4.28	0.0385055	1	0.87	0.77	0.99	0.76	0.59	0.99
STAGE1-2	12	0.454|0.429	1574|2618|1092|1164|1687|665	5284|3516	11.04	0.0008937	1	0.90	0.85	0.96	0.81	0.72	0.92
STAGE2	11	0.450|0.427	1262|2033|848|903|1299|507	4143|2709	7.15	0.0075106	1	0.91	0.85	0.98	0.83	0.72	0.95
CPSII	7	0.471|0.440	152|271|120|101|152|63	543|316	1.58	0.2082563	1	0.88	0.72	1.07	0.77	0.52	1.15
PBCS1	15	0.483|0.457	138|247|121|104|174|74	506|352	0.47	0.4949307	1	0.93	0.77	1.14	0.87	0.59	1.29
PLCO	1	0.449|0.391	298|478|199|167|212|69	975|448	8.33	0.003895	1	0.79	0.67	0.93	0.62	0.45	0.86
WHI	18	0.443|0.428	755|1175|479|579|835|328	2409|1742	1.88	0.1699882	1	0.94	0.86	1.03	0.88	0.74	1.05
STAGE3	23	0.445|0.445	1109|1730|719|484|795|309	3558|1588	0.00	0.9649295	1	1.00	0.92	1.09	1.00	0.85	1.19

NHS2	18	0.440|0.432	363|535|227|106|166|61	1125|333	0.12	0.7283735	1	0.97	0.82	1.15	0.94	0.67	1.33
PBCS2	15	0.457|0.451	518|863|368/211|357|141	1749|709	0.26	0.6110287	1	0.97	0.85	1.10	0.94	0.73	1.20
WHS	10	0.424|0.445	228|332|124/167|272|107	684|546	1.33	0.2481453	1	1.10	0.94	1.29	1.21	0.88	1.67
PBCS 1+2	13	0.463|0.452	656|1106|488/315|531|214	2250|1060	0.96	0.326725	1	0.95	0.86	1.05	0.90	0.73	1.11

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.259|0.282	2201|1519|277/978|787|146	3997|1911	6.68	0.0097669	1	1.12	1.03	1.23	1.26	1.06	1.50
STAGE3	2	0.259|0.278	1945|1325|250/817|646|116	3520|1579	4.34	0.0372297	1	1.11	1.01	1.22	1.23	1.01	1.48
NHS2	5	0.256|0.285	607|415|73/173|133|29	1095|335	2.19	0.1393495	1	1.16	0.95	1.40	1.34	0.91	1.96
PBCS2	2	0.259|0.288	969|667|121/350|308|50	1757|708	4.77	0.0289114	1	1.17	1.02	1.34	1.36	1.03	1.80
WHS	20	0.266|0.260	369|243|56/294|205|37	668|536	0.06	0.8068211	1	0.98	0.82	1.17	0.96	0.67	1.37
PBCS 1+2	2	0.259|0.293	1225|861|148/511|449|80	2234|1040	7.61	0.0058122	1	1.18	1.05	1.33	1.39	1.10	1.76

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.261|0.273	4211|2933|535/2281|1695|328	7679|4304	4.69	0.0303883	1	1.07	1.01	1.14	1.14	1.01	1.29
STAGE1-2	15	0.252|0.275	2304|1588|250/1429|1071|209	4142|2709	8.63	0.0033141	1	1.12	1.04	1.22	1.26	1.08	1.48
STAGE2	10	0.252|0.275	2304|1588|250/1429|1071|209	4142|2709	8.51	0.0035303	1	1.12	1.04	1.22	1.26	1.08	1.48
CPSII	11	0.247|0.266	309|198|35/173|118|25	542|316	0.77	0.3816559	1	1.10	0.88	1.38	1.22	0.78	1.91
PBCS1	11	0.246|0.265	293|177|36/198|123|32	506|353	1.06	0.303014	1	1.12	0.90	1.39	1.25	0.81	1.93
PLCO	2	0.230|0.271	569|364|42/235|182|30	975|447	5.55	0.0184682	1	1.26	1.04	1.52	1.58	1.08	2.31
WHI	15	0.263|0.280	1302|949|158/901|708|133	2409|1742	3.13	0.0769904	1	1.09	0.99	1.21	1.20	0.98	1.46
STAGE3	24	0.271|0.270	1907|1349|285/852|624|119	3541|1595	0.00	0.991269	1	1.00	0.91	1.10	1.00	0.83	1.21
NHS2	13	0.269|0.281	611|397|100/176|134|28	1108|338	0.32	0.5688925	1	1.06	0.88	1.27	1.11	0.77	1.61
PBCS2	13	0.273|0.265	926|696|131/381|280|48	1753|709	0.34	0.5625248	1	0.96	0.83	1.10	0.92	0.70	1.22
WHS	21	0.268|0.270	370|256|54/295|210|43	680|548	0.05	0.8264987	1	1.02	0.85	1.22	1.04	0.73	1.48
PBCS 1+2	24	0.267|0.265	1219|869|167/579|403|80	2255|1062	0.00	0.9880766	1	1.00	0.89	1.12	1.00	0.79	1.26

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.324|0.335	4021|3887|916/2294|2211|606	8824|5111	3.59	0.0582505	1	1.05	1.00	1.11	1.11	1.00	1.23
NHS	18	0.318|0.328	524|509|108/373|339|95	1141|807	0.37	0.5441547	1	1.04	0.91	1.20	1.09	0.83	1.43
STAGE1-2	20	0.325|0.337	2407|2311|562/1564|1530|419	5280|3513	2.41	0.12048	1	1.05	0.99	1.12	1.11	0.97	1.26
STAGE2	21	0.327|0.340	1883|1802|454/1191|1191|324	4139|2706	2.06	0.1513376	1	1.05	0.98	1.13	1.11	0.96	1.29
CPSII	18	0.334|0.340	243|231|64/139|138|38	538|315	0.14	0.7107075	1	1.04	0.85	1.28	1.08	0.71	1.64
PBCS1	22	0.319|0.326	229|228|47/161|150|39	504|350	0.01	0.9251499	1	1.01	0.82	1.25	1.02	0.67	1.56
PLCO	19	0.335|0.334	440|417|118/190|215|42	975|447	0.12	0.7260342	1	0.97	0.82	1.15	0.94	0.67	1.32
WHI	17	0.326|0.343	1097|1051|260/768|753|221	2408|1742	2.97	0.0847857	1	1.08	0.99	1.19	1.18	0.98	1.41
STAGE3	8	0.322|0.331	1613|1577|354/727|682|187	3544|1596	0.76	0.3831107	1	1.04	0.95	1.14	1.08	0.90	1.30
NHS2	17	0.317|0.324	518|491|109/160|145|39	1118|344	0.12	0.7258877	1	1.03	0.86	1.24	1.07	0.74	1.54
PBCS2	23	0.330|0.330	789|789|189/326|301|84	1767|711	0.00	0.9695867	1	1.00	0.87	1.14	0.99	0.77	1.29
WHS	4	0.310|0.336	306|297|56/241|236|64	659|541	1.82	0.1773251	1	1.13	0.95	1.34	1.27	0.90	1.80
PBCS 1+2	23	0.328|0.327	1019|1016|236/490|450|123	2271|1063	0.00	0.9542654	1	1.00	0.90	1.12	1.01	0.81	1.26

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	18	0.425|0.417	2956|4239|1625/1696|2557|852	8820|5105	3.28	0.070018	1	0.95	0.91	1.00	0.91	0.82	1.01
NHS	21	0.424|0.429	405|502|232/253|415|139	1139|807	0.06	0.8083598	1	1.02	0.89	1.15	1.03	0.80	1.33
STAGE1-2	18	0.436|0.424	1716|2524|1042/1133|1787|597	5282|3517	3.72	0.0537455	1	0.94	0.89	1.00	0.89	0.78	1.00
STAGE2	14	0.440|0.422	1311|2022|810/880|1372|458	4143|2710	5.49	0.0191088	1	0.92	0.86	0.99	0.85	0.74	0.97
CPSII	1	0.475|0.416	158|254|131/107|155|54	543|316	4.75	0.0292285	1	0.80	0.66	0.98	0.65	0.44	0.96
PBCS1	6	0.415|0.368	186|220|100/141|164|48	506|353	3.74	0.053127	1	0.82	0.68	1.00	0.68	0.46	1.01
PLCO	6	0.419|0.393	324|485|166/162|220|66	975|448	2.03	0.1545687	1	0.89	0.75	1.05	0.79	0.56	1.10
WHI	21	0.450|0.444	729|1192|488/517|903|322	2409|1742	0.30	0.5814906	1	0.98	0.89	1.07	0.95	0.80	1.14
STAGE3	18	0.407|0.403	1240|1715|584/563|771|255	3539|1589	0.27	0.6008725	1	0.98	0.90	1.07	0.95	0.80	1.14
NHS2	19	0.417|0.425	378|542|193/115|159|64	1113|338	0.11	0.7455812	1	1.03	0.87	1.22	1.06	0.75	1.50
PBCS2	8	0.400|0.386	625|849|274/266|333|105	1748|704	0.92	0.3375368	1	0.94	0.83	1.07	0.88	0.68	1.14
WHS	23	0.412|0.412	237|324|117/182|279|86	678|547	0.00	0.9960146	1	1.00	0.85	1.18	1.00	0.72	1.39
PBCS 1+2	6	0.403|0.380	811|1069|373/407|496|153	2253|1056	3.42	0.0643557	1	0.90	0.81	1.01	0.82	0.66	1.01

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O, AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	19	0.374|0.367	3426|4157|1207/2093|2255|738	8790|5086	2.23	0.1353384	1	0.96	0.91	1.01	0.93	0.84	1.02
NHS	16	0.382|0.374	429|553|159/329|353|125	1141|807	0.54	0.4609043	1	0.95	0.83	1.09	0.91	0.70	1.18
STAGE1-2	17	0.383|0.368	1953|2611|714/1447|1549|517	5278|3513	5.32	0.0211175	1	0.93	0.87	0.99	0.86	0.76	0.98
STAGE2	16	0.383|0.366	1524|2058|555/1118|1196|392	4137|2706	4.93	0.0264525	1	0.92	0.86	0.99	0.85	0.73	0.98
CPSII	13	0.377|0.359	216|242|83/131|143|42	541|316	0.55	0.4597807	1	0.93	0.76	1.13	0.86	0.57	1.29
PBCS1	8	0.375|0.334	193|244|67/160|150|43	504|353	2.31	0.1285249	1	0.85	0.69	1.05	0.73	0.48	1.10
PLCO	10	0.371|0.354	371|484|120/188|200|58	975|446	1.46	0.2268894	1	0.90	0.76	1.07	0.81	0.58	1.14
WHI	20	0.385|0.378	871|1215|320/694|776|270	2406|1740	0.47	0.4934089	1	0.97	0.88	1.06	0.94	0.78	1.13
STAGE3	14	0.361|0.365	1473|1545|494/646|707|221	3512|1574	0.48	0.4875169	1	1.03	0.95	1.13	1.06	0.89	1.27
NHS2	16	0.364|0.373	446|495|150/133|153|48	1091|334	0.16	0.6916939	1	1.04	0.87	1.24	1.07	0.75	1.53
PBCS2	5	0.359|0.382	732|784|238/269|335|102	1754|706	2.26	0.1328306	1	1.10	0.97	1.25	1.22	0.94	1.57
WHS	12	0.358|0.338	295|266|106/244|219|71	667|534	0.74	0.3902401	1	0.93	0.79	1.09	0.87	0.63	1.20
PBCS 1+2	17	0.362|0.366	925|1029|304/429|484|145	2258|1058	0.07	0.7982522	1	1.01	0.91	1.13	1.03	0.83	1.28

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	20	0.395|0.385	2822|3643|1205/1621|2044|634	7670|4299	2.14	0.1436535	1	0.96	0.91	1.01	0.92	0.83	1.03
STAGE1-2	19	0.398|0.383	1509|1968|666/1028|1286|396	4143|2710	3.38	0.0658163	1	0.94	0.87	1.01	0.88	0.76	1.01
STAGE2	19	0.398|0.383	1509|1968|666/1028|1286|396	4143|2710	3.19	0.0740664	1	0.94	0.87	1.01	0.88	0.76	1.01
CPSII	14	0.394|0.413	201|256|86/96|179|41	543|316	0.39	0.5317302	1	1.07	0.87	1.31	1.14	0.75	1.73
PBCS1	9	0.409|0.375	176|246|84/140|161|52	506|353	2.04	0.1535444	1	0.86	0.71	1.06	0.75	0.50	1.12
PLCO	22	0.393|0.394	355|474|146/170|203|75	975|448	0.01	0.9412591	1	0.99	0.84	1.17	0.99	0.71	1.37
WHI	16	0.397|0.378	890|1125|394/672|822|248	2409|1742	2.97	0.0847368	1	0.92	0.85	1.01	0.85	0.72	1.02
STAGE3	22	0.390|0.388	1315|1676|539/593|760|238	3530|1591	0.01	0.9083979	1	0.99	0.91	1.09	0.99	0.83	1.18
NHS2	12	0.382|0.370	428|504|169/128|165|41	1101|334	0.34	0.5606154	1	0.95	0.79	1.13	0.90	0.63	1.28
PBCS2	22	0.399|0.398	621|858|268/263|330|118	1747|711	0.00	0.9444778	1	1.00	0.88	1.13	0.99	0.77	1.28
WHS	17	0.380|0.387	266|314|102/202|265|79	682|546	0.19	0.6626342	1	1.04	0.88	1.22	1.08	0.78	1.49
PBCS 1+2	16	0.402|0.390	795|1103|352/403|489|170	2250|1062	0.71	0.3984513	1	0.96	0.86	1.06	0.91	0.74	1.13

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	--------------	--------------	--------	------------	-----------------

STAGE1-3	21	0.258|0.250	4826|3425|560/2885|1879|337	8811|5101	2.14	0.1437768	1	0.96	0.91	1.01	0.92	0.82	1.03
NHS	17	0.256|0.247	634|430|77/470|276|61	1141|807	0.51	0.4761864	1	0.95	0.82	1.10	0.90	0.67	1.20
STAGE1-2	16	0.263|0.247	2851|2086|344/2020|1258|238	5281|3516	5.55	0.0184979	1	0.92	0.86	0.99	0.85	0.74	0.97
STAGE2	15	0.264|0.247	2217|1656|267/1550|982|177	4140|2709	5.34	0.0208858	1	0.91	0.84	0.99	0.83	0.71	0.97
CPSII	2	0.266|0.222	286|224|32/197|98|21	542|316	4.52	0.0334055	1	0.78	0.61	0.98	0.60	0.38	0.96
PBCS1	13	0.247|0.229	284|193|28/212|119|21	505|352	0.65	0.4198709	1	0.91	0.72	1.15	0.83	0.52	1.31
PLCO	14	0.263|0.253	526|385|64/254|161|33	975|448	0.43	0.5123049	1	0.94	0.78	1.13	0.88	0.61	1.28
WHI	12	0.270|0.249	1272|973|163/983|649|110	2408|1742	4.14	0.041914	1	0.90	0.81	1.00	0.81	0.66	0.99
STAGE3	11	0.251|0.258	1975|1339|216/865|621|98	3530|1584	0.70	0.4027227	1	1.04	0.95	1.15	1.09	0.89	1.33
NHS2	6	0.266|0.239	598|438|77/198|117|22	1113|337	2.00	0.1575201	1	0.87	0.71	1.06	0.75	0.50	1.12
PBCS2	4	0.245|0.268	993|643|105/372|282|47	1741|701	2.59	0.1076509	1	1.12	0.97	1.30	1.26	0.95	1.68
WHS	11	0.241|0.256	384|258|34/295|222|29	676|546	0.79	0.3750888	1	1.09	0.90	1.32	1.19	0.81	1.74
PBCS 1+2	14	0.245|0.256	1277|836|133/584|401|69	2246|1054	0.87	0.3505172	1	1.06	0.94	1.19	1.12	0.88	1.43

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95% l	hom OR 95% CI_u
STAGE1-3	22	0.156|0.160	6264|2378|185/3629|1305|166	8827|5100	0.90	0.3416449	1	1.03	0.97	1.11	1.07	0.93	1.22
NHS	15	0.159|0.168	807|306|28/572|199|36	1141|807	0.64	0.4250899	1	1.07	0.90	1.27	1.15	0.82	1.61
STAGE1-2	22	0.155|0.161	3739|1443|99/2508|881|126	5281|3515	0.83	0.3635641	1	1.04	0.96	1.13	1.08	0.91	1.27
STAGE2	22	0.154|0.159	2932|1137|71/1936|682|90	4140|2708	0.36	0.5506145	1	1.03	0.94	1.13	1.06	0.88	1.28
CPSII	22	0.173|0.171	368|161|13/220|84|12	542|316	0.06	0.8093686	1	0.97	0.74	1.26	0.94	0.55	1.59
PBCS1	12	0.138|0.156	373|123|8/259|76|17	504|352	0.98	0.3225781	1	1.14	0.88	1.49	1.31	0.77	2.23
PLCO	23	0.156|0.160	688|270|17/318|117|13	975|448	0.00	0.9907542	1	1.00	0.80	1.25	1.00	0.64	1.56
WHI	23	0.154|0.157	1704|664|40/1244|446|51	2408|1741	0.12	0.7344614	1	1.02	0.90	1.15	1.04	0.82	1.33
STAGE3	21	0.156|0.159	2525|935|85/1121|424|40	3545|1585	0.11	0.7413102	1	1.02	0.91	1.15	1.04	0.82	1.32
NHS2	9	0.167|0.151	777|314|30/246|82|10	1121|338	0.93	0.3338694	1	0.89	0.70	1.13	0.79	0.49	1.27
PBCS2	9	0.148|0.158	1266|440|38/496|184|18	1744|698	0.68	0.4103504	1	1.08	0.90	1.28	1.16	0.82	1.63
WHS	15	0.158|0.166	482|181|17/379|158|12	680|549	0.25	0.6190722	1	1.06	0.85	1.32	1.12	0.72	1.73
PBCS 1+2	10	0.146|0.157	1639|563|47/755|260|35	2249|1050	1.73	0.1887641	1	1.10	0.95	1.27	1.21	0.91	1.62

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95% l	hom OR 95% CI_u
STAGE1-3	23	0.372|0.367	3513|4015|1265/2027|2376|676	8793|5079	0.69	0.4056612	1	0.98	0.93	1.03	0.96	0.86	1.06
NHS	20	0.371|0.366	452|529|159/323|377|107	1140|807	0.06	0.8078241	1	0.98	0.86	1.12	0.97	0.74	1.26
STAGE1-2	21	0.375|0.364	2110|2378|788/1393|1684|438	5276|3515	2.05	0.152148	1	0.96	0.90	1.02	0.91	0.80	1.03
STAGE2	20	0.376|0.364	1658|1849|629/1070|1307|331	4136|2708	2.24	0.1343299	1	0.95	0.88	1.02	0.90	0.78	1.03
CPSII	4	0.371|0.339	217|240|79/132|150|31	536|313	2.18	0.1400548	1	0.85	0.69	1.05	0.73	0.48	1.11
PBCS1	17	0.387|0.375	195|230|81/125|190|37	506|352	0.30	0.5814294	1	0.94	0.77	1.16	0.89	0.59	1.34
PLCO	12	0.376|0.360	398|416|157/180|213|55	971|448	0.83	0.3609388	1	0.93	0.79	1.09	0.86	0.62	1.19
WHI	19	0.372|0.365	971|1084|353/693|828|221	2408|1742	0.47	0.493347	1	0.97	0.89	1.06	0.94	0.78	1.12
STAGE3	19	0.369|0.373	1403|1641|477/634|693|238	3521|1565	0.25	0.6186358	1	1.02	0.94	1.12	1.05	0.88	1.25
NHS2	1	0.341|0.392	493|477|140/129|154|56	1110|339	6.01	0.0142566	1	1.24	1.04	1.48	1.54	1.09	2.19
PBCS2	20	0.380|0.381	656|853|236/275|321|108	1745|704	0.04	0.8490082	1	1.01	0.89	1.15	1.03	0.79	1.33
WHS	3	0.385|0.351	254|311|101/230|218|74	666|522	2.72	0.0988874	1	0.87	0.74	1.03	0.76	0.54	1.05
PBCS 1+2	21	0.381|0.379	851|1079|317/400|510|145	2247|1055	0.01	0.9162836	1	0.99	0.89	1.11	0.99	0.80	1.23

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95% l	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	--------------	--------------	--------	--------------	-----------------

STAGE1-3	24	0.219|0.220	5354|3028|417|3142|1658|292	8799|5092	0.16	0.6896561	1	1.01	0.95	1.07	1.02	0.91	1.15
NHS	19	0.218|0.222	691|402|48|502|251|54	1141|807	0.18	0.6740173	1	1.03	0.89	1.20	1.07	0.79	1.45
STAGE1-2	23	0.218|0.217	3200|1869|215|2194|1121|202	5284|3517	0.01	0.9405648	1	1.00	0.93	1.07	0.99	0.86	1.15
STAGE2	23	0.217|0.215	2509|1467|167|1692|870|148	4143|2710	0.09	0.7645887	1	0.99	0.91	1.07	0.97	0.82	1.15
CPSII	9	0.215|0.199	328|197|18|205|96|15	543|316	1.01	0.3140617	1	0.88	0.68	1.13	0.77	0.47	1.28
PBCS1	18	0.242|0.245	282|203|21|203|127|23	506|353	0.05	0.8206527	1	1.03	0.81	1.30	1.06	0.66	1.68
PLCO	21	0.214|0.218	603|326|46|277|147|24	975|448	0.02	0.8813931	1	1.01	0.84	1.23	1.03	0.70	1.51
WHI	22	0.215|0.210	1466|851|92|1105|544|93	2409|1742	0.30	0.5833079	1	0.97	0.87	1.08	0.94	0.76	1.17
STAGE3	7	0.222|0.228	2154|1160|202|948|539|90	3516|1577	0.92	0.3385281	1	1.05	0.95	1.16	1.10	0.90	1.35
NHS2	21	0.210|0.212	694|349|56|207|109|16	1099|332	0.02	0.8938798	1	1.01	0.82	1.25	1.03	0.68	1.56
PBCS2	3	0.234|0.254	1042|597|112|398|260|50	1751|708	2.63	0.1050702	1	1.12	0.98	1.29	1.26	0.95	1.67
WHS	16	0.212|0.203	418|214|34|343|170|24	666|537	0.21	0.6494604	1	0.96	0.79	1.16	0.91	0.62	1.35
PBCS 1+2	11	0.236|0.251	1324|799|133|601|385|73	2256|1059	1.67	0.1960106	1	1.08	0.96	1.22	1.17	0.92	1.49

adj_rec

Locus	Alleles	Chr	Location	Neighborhood									
rs11249433	T|C	1p11.2		120982136 LOC647121									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95%	CI_u		
STAGE1-3	1	0.395|0.441	3255|4114|1412|1590|2476|993	8781|5059	25.42	4.609E-07	1	1.26	1.15	1.38			
NHS	5	0.388|0.448	425|540|170|238|411|155	1135|804	5.89	0.0152437	1	1.35	1.06	1.71			
STAGE1-2	11	0.403|0.443	1899|2491|874|1070|1756|674	5264|3500	9.58	0.0019688	1	1.19	1.07	1.33			
STAGE2	14	0.407|0.442	1474|1951|704|832|1345|519	4129|2696	4.99	0.025438	1	1.15	1.02	1.31			
CPSII	19	0.378|0.405	220|235|88|108|159|48	543|315	0.15	0.6997681	1	0.93	0.63	1.37			
PBCS1	20	0.387|0.407	195|230|81|124|171|58	506|353	0.01	0.9276637	1	0.98	0.68	1.43			
PLCO	18	0.420|0.427	324|476|169|140|232|75	969|447	0.08	0.7827011	1	0.96	0.71	1.30			
WHI	6	0.407|0.455	857|1133|411|514|857|359	2401|1730	9.05	0.0026253	1	1.27	1.09	1.49			
STAGE3	1	0.383|0.436	1360|1625|538|520|720|319	3523|1559	17.67	0.00002622	1	1.40	1.20	1.64			
NHS2	1	0.395|0.446	418|522|182|107|147|72	1122|326	6.04	0.0139987	1	1.47	1.08	1.99			
PBCS2	1	0.362|0.410	719|778|240|246|324|121	1737|691	5.50	0.0190383	1	1.33	1.05	1.70			
WHS	1	0.419|0.462	223|325|116|167|249|126	664|542	6.40	0.0114006	1	1.44	1.08	1.91			
PBCS 1+2	2	0.368|0.409	910|1006|321|370|495|179	2237|1044	4.04	0.0445084	1	1.23	1.00	1.50			

Locus	Alleles	Chr	Location	Neighborhood									
rs999737	C|T	14q24.1		68104435 RAD51L1									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95%	CI_u		
STAGE1-3	2	0.238|0.215	5166|3096|548|3130|1743|227	8810|5100	18.22	0.00001963	1	0.71	0.60	0.83			
NHS	1	0.244|0.209	660|405|76|499|278|30	1141|807	8.04	0.0045657	1	0.54	0.35	0.83			
STAGE1-2	7	0.239|0.211	3092|1862|330|2185|1182|150	5284|3517	15.94	0.00006544	1	0.67	0.55	0.82			
STAGE2	9	0.237|0.211	2432|1457|254|1686|904|120	4143|2710	8.99	0.0027175	1	0.71	0.57	0.89			
CPSII	22	0.235|0.223	319|193|31|193|105|18	543|316	0.01	0.9120954	1	0.97	0.53	1.77			
PBCS1	2	0.242|0.203	291|185|30|219|125|9	506|353	5.91	0.0150918	1	0.40	0.19	0.86			
PLCO	1	0.238|0.225	576|334|65|262|170|16	975|448	5.54	1.85E-02	1	0.51	0.29	0.90			
WHI	16	0.235|0.208	1416|854|139|1100|559|83	2409|1742	2.09	0.1480146	1	0.81	0.61	1.08			
STAGE3	4	0.237|0.226	2075|1237|218|946|562|77	3530|1585	2.89	0.0893229	1	0.79	0.60	1.04			
NHS2	14	0.234|0.233	664|362|77|198|115|20	1103|333	0.37	0.5436062	1	0.85	0.51	1.42			
PBCS2	15	0.236|0.224	1016|637|94|422|248|34	1747|704	0.20	0.6557827	1	0.91	0.61	1.37			
WHS	2	0.244|0.224	395|238|47|326|199|23	680|548	3.94	0.0472148	1	0.60	0.36	1.00			
PBCS 1+2	4	0.237|0.217	1306|819|124|640|372|43	2249|1055	2.72	0.0993975	1	0.74	0.52	1.06			

Locus	Alleles	Chr	Location	Neighborhood
rs9491859	C|A	6q22.33		128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	3	0.352|0.377	3704|4014|1097|2017|2314|764	8815|5095	17.49	0.00002891	1	1.24	1.12	1.37
NHS	6	0.356|0.375	459|551|130|325|359|123	1140|807	5.49	0.0191713	1	1.37	1.05	1.79
STAGE1-2	4	0.348|0.377	2226|2432|625|1401|1579|536	5283|3516	19.55	0.000009775	1	1.33	1.17	1.50
STAGE2	5	0.346|0.378	1767|1881|495|1076|1220|413	4143|2709	13.98	0.0001852	1	1.31	1.14	1.51
CPSII	7	0.350|0.351	220|266|57|137|136|43	543|316	1.61	0.2038273	1	1.32	0.86	2.02
PBCS1	13	0.345|0.364	216|231|59|147|154|51	506|352	1.05	0.3065109	1	1.24	0.82	1.86
PLCO	14	0.333|0.376	437|427|111|170|219|59	975|448	0.50	0.4788214	1	1.13	0.80	1.60
WHI	4	0.351|0.384	1018|1093|298|682|781|279	2409|1742	11.44	0.0007188	1	1.36	1.14	1.62
STAGE3	10	0.358|0.377	1479|1586|472|617|735|228	3537|1580	1.06	0.3022532	1	1.10	0.92	1.30
NHS2	18	0.368|0.371	459|501|163|139|147|52	1123|338	0.15	0.6967557	1	1.07	0.76	1.50
PBCS2	8	0.349|0.365	744|779|218|286|322|96	1741|704	0.51	0.4772465	1	1.10	0.85	1.42
WHS	12	0.363|0.396	276|306|91|192|266|80	673|538	0.63	0.4285281	1	1.14	0.82	1.58
PBCS 1+2	6	0.348|0.365	959|1006|277|432|476|147	2242|1055	1.68	0.1954901	1	1.15	0.93	1.43

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	4	0.156|0.160	6264|2378|185|3629|1305|166	8827|5100	17.47	0.00002914	1	1.58	1.27	1.96
NHS	4	0.159|0.168	807|306|28|572|199|36	1141|807	6.13	0.0133201	1	1.87	1.13	3.11
STAGE1-2	2	0.155|0.161	3739|1443|99|2508|881|126	5281|3515	23.99	9.675E-07	1	1.93	1.48	2.53
STAGE2	4	0.154|0.159	2932|1137|71|1936|682|90	4140|2708	17.95	0.00002273	1	1.96	1.43	2.70
CPSII	6	0.173|0.171	368|161|13|220|84|12	542|316	1.65	0.1988589	1	1.68	0.75	3.76
PBCS1	1	0.138|0.156	373|123|8|259|76|17	504|352	8.57	0.0034177	1	3.39	1.43	8.01
PLCO	9	0.156|0.160	688|270|17|318|117|13	975|448	1.30	0.2538864	1	1.54	0.73	3.24
WHI	8	0.154|0.157	1704|664|40|1244|446|51	2408|1741	7.63	0.0057469	1	1.79	1.18	2.73
STAGE3	18	0.156|0.159	2525|935|85|1121|424|40	3545|1585	0.15	0.7016361	1	1.08	0.73	1.59
NHS2	21	0.167|0.151	777|314|30|246|82|10	1121|338	0.07	0.786355	1	1.11	0.53	2.29
PBCS2	11	0.148|0.158	1266|440|38|496|184|18	1744|698	0.44	0.5073133	1	1.21	0.68	2.15
WHS	20	0.158|0.166	482|181|17|379|158|12	680|549	0.07	0.7943591	1	0.90	0.43	1.92
PBCS 1+2	1	0.146|0.157	1639|563|47|755|260|35	2249|1050	4.34	0.0371335	1	1.60	1.02	2.51

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	5	0.160|0.176	6228|2348|240|3497|1411|190	8816|5098	14.31	0.0001549	1	1.46	1.20	1.78
NHS	7	0.151|0.179	814|310|17|542|240|24	1141|806	5.08	0.024239	1	2.04	1.08	3.82
STAGE1-2	3	0.150|0.175	3805|1374|105|2412|975|129	5284|3516	23.48	0.000001262	1	1.90	1.46	2.47
STAGE2	3	0.150|0.174	2991|1064|88|1870|735|105	4143|2710	18.36	0.00001832	1	1.87	1.40	2.50
CPSII	9	0.159|0.171	383|147|13|221|82|13	543|316	1.20	0.2728025	1	1.55	0.70	3.43
PBCS1	16	0.191|0.231	335|149|22|208|127|18	506|353	0.41	0.5195201	1	1.24	0.65	2.36
PLCO	8	0.144|0.156	714|241|20|322|112|14	975|448	1.46	0.2274646	1	1.53	0.76	3.09
WHI	2	0.143|0.170	1761|606|42|1216|460|66	2409|1742	16.64	0.00004529	1	2.22	1.50	3.29
STAGE3	19	0.176|0.177	2423|975|135|1085|437|61	3533|1583	0.10	0.7475362	1	1.05	0.77	1.44
NHS2	19	0.169|0.161	777|292|42|240|79|14	1111|333	0.13	0.720686	1	1.12	0.60	2.08
PBCS2	17	0.190|0.188	1158|519|73|467|211|27	1750|705	0.09	0.7596205	1	0.93	0.59	1.47
WHS	16	0.152|0.172	488|164|20|378|147|20	672|545	0.46	0.4954853	1	1.25	0.66	2.34
PBCS 1+2	23	0.190|0.202	1493|667|95|675|337|45	2255|1057	0.00	0.9978446	1	1.00	0.69	1.44

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	6	0.220|0.243	5382|3016|434/2950|1835|322	8832|5107	11.53	0.000684	1	1.29	1.11	1.51
NHS	2	0.215|0.253	693|401|44/451|303|53	1138|807	7.34	0.0067368	1	1.76	1.16	2.65
STAGE1-2	1	0.216|0.248	3227|1822|226/2015|1256|243	5275|3514	27.39	1.659E-07	1	1.64	1.36	1.98
STAGE2	1	0.216|0.246	2534|1421|182/1564|953|190	4137|2707	20.21	0.000006939	1	1.62	1.31	2.00
CPSII	10	0.225|0.241	325|192|26/186|108|22	543|316	0.99	0.3200624	1	1.35	0.75	2.44
PBCS1	6	0.217|0.272	308|173|23/186|139|26	504|351	3.16	0.0756691	1	1.69	0.94	3.05
PLCO	11	0.223|0.232	577|359|37/261|166|21	973|448	0.81	0.3682391	1	1.29	0.74	2.24
WHI	3	0.212|0.248	1499|797|111/1010|600|131	2407|1741	15.34	0.00008976	1	1.68	1.29	2.18
STAGE3	6	0.226|0.231	2155|1196|208/936|581|78	3559|1595	1.79	0.1808987	1	0.83	0.63	1.09
NHS2	7	0.229|0.230	676|383|66/198|126|15	1125|339	1.04	0.3078596	1	0.74	0.42	1.32
PBCS2	22	0.223|0.233	1070|586|98/417|254|38	1754|709	0.01	0.909291	1	0.98	0.66	1.44
WHS	5	0.232|0.229	409|227|44/321|201|25	680|547	1.97	0.1606709	1	0.70	0.42	1.16
PBCS 1+2	13	0.221|0.246	1378|757|121/602|391|65	2256|1058	0.77	0.3791682	1	1.15	0.84	1.57

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	7	0.407|0.431	3135|4180|1492/1673|2433|970	8807|5076	10.85	0.0009888	1	1.16	1.06	1.27
NHS	19	0.392|0.437	429|513|185/240|421|139	1127|800	0.29	0.5903472	1	1.07	0.84	1.36
STAGE1-2	12	0.401|0.429	1895|2517|857/1154|1698|657	5269|3509	8.85	0.0029361	1	1.19	1.06	1.33
STAGE2	8	0.404|0.427	1466|2004|672/914|1277|518	4142|2709	9.40	0.002172	1	1.22	1.07	1.39
CPSII	11	0.427|0.389	178|265|99/121|144|51	542|316	0.92	0.3374749	1	0.83	0.57	1.21
PBCS1	12	0.410|0.463	174|249|83/97|185|71	506|353	1.35	0.2455267	1	1.23	0.86	1.76
PLCO	13	0.408|0.407	339|475|160/163|205|80	974|448	0.51	0.4736043	1	1.12	0.83	1.51
WHI	7	0.400|0.429	866|1158|385/588|813|340	2409|1741	9.04	0.0026388	1	1.28	1.09	1.51
STAGE3	3	0.415|0.435	1240|1666|636/520|739|315	3542|1574	3.08	0.0793322	1	1.15	0.98	1.34
NHS2	3	0.402|0.449	413|517|193/105|156|71	1123|332	2.98	0.0844234	1	1.31	0.96	1.77
PBCS2	13	0.424|0.440	593|833|328/226|346|140	1754|712	0.31	0.5766255	1	1.07	0.85	1.33
WHS	8	0.411|0.420	234|316|115/189|237|104	665|530	1.05	0.3065446	1	1.17	0.87	1.57
PBCS 1+2	9	0.421|0.447	767|1079|410/322|527|209	2256|1058	1.25	0.2628642	1	1.11	0.92	1.34

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	8	0.425|0.417	2956|4239|1625/1696|2557|852	8820|5105	9.29	0.0023046	1	0.87	0.79	0.95
NHS	10	0.424|0.429	405|502|232/253|415|139	1139|807	3.16	0.0754461	1	0.81	0.64	1.02
STAGE1-2	9	0.436|0.424	1716|2524|1042/1133|1787|597	5282|3517	11.90	0.0005604	1	0.82	0.74	0.92
STAGE2	10	0.440|0.422	1311|2022|810/880|1372|458	4143|2710	8.78	0.0030465	1	0.83	0.73	0.94
CPSII	2	0.475|0.416	158|254|131/107|155|54	543|316	5.00	0.0253117	1	0.67	0.47	0.95
PBCS1	4	0.415|0.368	186|220|100/141|164|48	506|353	4.64	0.0311942	1	0.66	0.45	0.96
PLCO	10	0.419|0.393	324|485|166/162|220|66	975|448	1.22	0.2695816	1	0.84	0.61	1.15
WHI	17	0.450|0.444	729|1192|488/517|903|322	2409|1742	2.07	0.1506186	1	0.89	0.76	1.04
STAGE3	16	0.407|0.403	1240|1715|584/563|771|255	3539|1589	0.19	0.665581	1	0.96	0.82	1.14
NHS2	12	0.417|0.425	378|542|193/115|159|64	1113|338	0.40	0.5253727	1	1.11	0.81	1.52
PBCS2	14	0.400|0.386	625|849|274/266|333|105	1748|704	0.25	0.6146051	1	0.94	0.73	1.20
WHS	15	0.412|0.412	237|324|117/182|279|86	678|547	0.49	0.4828742	1	0.90	0.66	1.22
PBCS 1+2	3	0.403|0.380	811|1069|373/407|496|153	2253|1056	2.88	0.0897618	1	0.84	0.68	1.03

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	9	0.384|0.367	3358|3974|1348/2015|2294|686	8680|4995	9.28	0.0023188	1	0.86	0.77	0.95
NHS	16	0.399|0.362	403|541|177/333|343|115	1121|791	0.79	0.3750074	1	0.89	0.69	1.15
STAGE1-2	5	0.400|0.362	1731|2149|796/1268|1397|418	4676|3083	17.89	0.00002344	1	0.76	0.67	0.86
STAGE2	2	0.400|0.362	1328|1608|619/935|1054|303	3555|2292	19.05	0.00001271	1	0.72	0.62	0.83
CPSII	16	0.387|0.355	199|251|79/131|139|41	529|311	0.38	0.5355394	1	0.88	0.58	1.32
PLCO	20	0.378|0.372	379|431|146/181|186|69	956|436	0.02	0.8980318	1	1.02	0.74	1.40
WHI	1	0.409|0.362	857|1064|430/680|800|212	2351|1692	24.50	7.412E-07	1	0.64	0.53	0.76
STAGE3	24	0.366|0.374	1434|1610|490/618|750|218	3534|1586	0.00	0.9844861	1	1.00	0.84	1.19
NHS2	6	0.366|0.404	457|508|157/122|166|56	1122|344	1.10	0.2932797	1	1.20	0.86	1.67
PBCS2	3	0.368|0.360	706|782|248/283|324|88	1736|695	1.46	0.2265836	1	0.85	0.65	1.11
WHS	17	0.362|0.373	271|320|85/213|260|74	676|547	0.29	0.5905716	1	1.10	0.78	1.53
PBCS 1+2	16	0.367|0.366	899|997|310/412|471|138	2206|1021	0.29	0.5885665	1	0.94	0.76	1.17

Locus rs12608723 Alleles A|G Chr 19q13.11 Location Neighborhood 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	10	0.136|0.121	6618|2036|188/3939|1089|75	8842|5103	8.48	0.0035902	1	0.67	0.51	0.88
NHS	14	0.153|0.121	818|296|27/624|169|13	1141|806	1.57	0.2106889	1	0.65	0.33	1.28
STAGE1-2	13	0.143|0.122	3887|1281|116/2710|757|49	5284|3516	7.67	0.0055994	1	0.62	0.44	0.87
STAGE2	13	0.140|0.122	3069|985|89/2086|588|36	4143|2710	6.06	0.0138636	1	0.61	0.41	0.91
CPSII	14	0.140|0.114	398|138|7/250|60|6	543|316	0.72	0.396125	1	1.61	0.53	4.89
PBCS1	8	0.153|0.110	364|129|13/278|72|3	506|353	2.68	0.1018103	1	0.36	0.10	1.29
PLCO	6	0.132|0.116	738|216|21/348|96|4	975|448	2.71	0.0999807	1	0.41	0.14	1.22
WHI	14	0.141|0.126	1783|572|54/1330|386|26	2409|1742	3.08	0.0792473	1	0.66	0.41	1.05
STAGE3	8	0.127|0.122	2733|758|72/1229|335|26	3563|1590	1.20	0.2728951	1	0.77	0.49	1.23
NHS2	17	0.126|0.118	869|243|21/261|69|5	1133|335	0.17	0.6840351	1	0.82	0.30	2.18
PBCS2	19	0.124|0.119	1344|368|32/554|145|12	1744|711	0.06	0.8107094	1	0.92	0.47	1.80
WHS	6	0.135|0.128	520|147|19/414|121|9	686|544	1.65	0.1984939	1	0.59	0.27	1.33
PBCS 1+2	7	0.130|0.115	1706|494|45/832|214|15	2245|1061	1.57	0.2097821	1	0.69	0.38	1.24

Locus rs17740709 Alleles A|G Chr 12q21.31 Location Neighborhood 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	11	0.219|0.220	5354|3028|417/3142|1658|292	8799|5092	8.42	0.003709	1	1.26	1.08	1.47
NHS	3	0.218|0.222	691|402|48/502|251|54	1141|807	6.22	0.0126559	1	1.66	1.11	2.48
STAGE1-2	8	0.218|0.217	3200|1869|215/2194|1121|202	5284|3517	13.37	0.0002559	1	1.45	1.19	1.76
STAGE2	11	0.217|0.215	2509|1467|167/1692|870|148	4143|2710	7.71	0.0054844	1	1.38	1.10	1.74
CPSII	13	0.215|0.199	328|197|18/205|96|15	543|316	0.85	0.3572388	1	1.39	0.69	2.84
PBCS1	10	0.242|0.245	282|203|21/203|127|23	506|353	2.24	0.1343555	1	1.60	0.86	2.97
PLCO	17	0.214|0.218	603|326|46/277|147|24	975|448	0.11	0.7440809	1	1.09	0.65	1.83
WHI	9	0.215|0.210	1466|851|92/1105|544|93	2409|1742	5.47	0.0193961	1	1.42	1.06	1.91
STAGE3	22	0.222|0.228	2154|1160|202/948|539|90	3516|1577	0.06	0.8108164	1	1.03	0.80	1.34
NHS2	23	0.210|0.212	694|349|56/207|109|16	1099|332	0.05	0.8297526	1	0.94	0.53	1.66
PBCS2	5	0.234|0.254	1042|597|112/398|260|50	1751|708	0.66	0.4183108	1	1.15	0.82	1.63
WHS	19	0.212|0.203	418|214|34/343|170|24	666|537	0.19	0.6669063	1	0.89	0.52	1.52
PBCS 1+2	5	0.236|0.251	1324|799|133/601|385|73	2256|1059	1.82	0.1774008	1	1.23	0.91	1.65

Locus rs17570439 Alleles T|C Chr 1p34.2 Location Neighborhood 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	------------	-----------------

STAGE1-3	12	0.208|0.224	5507|2905|379|3076|1762|263	8791|5101	7.61	0.0057962	1	1.26	1.07	1.48
NHS	8	0.204|0.245	718|381|42|457|304|46	1141|807	4.75	0.0293298	1	1.61	1.05	2.47
STAGE1-2	6	0.208|0.229	3285|1798|201|2104|1217|196	5284|3517	17.02	0.00003697	1	1.53	1.25	1.88
STAGE2	6	0.209|0.224	2567|1417|159|1647|913|150	4143|2710	12.13	0.0004972	1	1.50	1.19	1.89
CPSII	5	0.196|0.201	343|187|13|203|99|14	543|316	2.98	0.0844232	1	1.97	0.90	4.32
PBCS1	5	0.210|0.215	310|179|17|223|108|22	506|353	4.21	0.0400748	1	1.98	1.02	3.83
PLCO	22	0.220|0.238	599|323|53|259|165|24	975|448	0.00	0.9843458	1	1.00	0.60	1.64
WHI	5	0.206|0.225	1501|825|83|1053|594|95	2409|1742	9.77	0.0017715	1	1.61	1.19	2.18
STAGE3	9	0.209|0.214	2222|1108|178|972|545|67	3508|1584	1.08	0.2987114	1	0.86	0.64	1.15
NHS2	15	0.208|0.229	694|332|60|194|119|16	1086|329	0.19	0.6590717	1	0.88	0.50	1.55
PBCS2	23	0.208|0.210	1111|557|86|448|228|35	1754|711	0.00	0.9570248	1	0.99	0.66	1.48
WHS	4	0.212|0.211	417|219|32|330|198|16	668|544	2.65	0.1034165	1	0.60	0.33	1.11
PBCS 1+2	12	0.208|0.211	1421|735|103|671|336|57	2259|1064	1.13	0.2870481	1	1.20	0.86	1.68

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	13	0.324|0.335	4021|3887|916|2294|2211|606	8824|5111	7.22	0.0072224	1	1.16	1.04	1.30
NHS	12	0.318|0.328	524|509|108|373|339|95	1141|807	2.49	0.1149265	1	1.27	0.94	1.70
STAGE1-2	17	0.325|0.337	2407|2311|562|1564|1530|419	5280|3513	3.17	0.0752077	1	1.13	0.99	1.30
STAGE2	18	0.327|0.340	1883|1802|454|1191|1191|324	4139|2706	1.40	0.236159	1	1.10	0.94	1.28
CPSII	21	0.334|0.340	243|231|64|139|138|38	538|315	0.06	0.8027409	1	1.06	0.68	1.63
PBCS1	14	0.319|0.326	229|228|47|161|150|39	504|350	0.60	0.4369463	1	1.20	0.76	1.89
PLCO	3	0.335|0.334	440|417|118|190|215|42	975|447	3.43	0.0639932	1	0.70	0.48	1.02
WHI	11	0.326|0.343	1097|1051|260|768|753|221	2408|1742	3.99	0.0456487	1	1.22	1.00	1.47
STAGE3	2	0.322|0.331	1613|1577|354|727|682|187	3544|1596	3.89	0.0486059	1	1.21	1.00	1.47
NHS2	10	0.317|0.324	518|491|109|160|145|39	1118|344	0.71	0.3985682	1	1.18	0.80	1.74
PBCS2	4	0.330|0.330	789|789|189|326|301|84	1767|711	0.66	0.4180283	1	1.12	0.85	1.47
WHS	3	0.310|0.336	306|297|56|241|236|64	659|541	3.50	0.0613945	1	1.43	0.98	2.10
PBCS 1+2	10	0.328|0.327	1019|1016|236|490|450|123	2271|1063	1.21	0.2711777	1	1.14	0.90	1.44

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	14	0.451|0.434	2683|4344|1810|1648|2482|973	8837|5103	3.73	0.053449	1	0.92	0.84	1.00
NHS	15	0.470|0.436	312|585|244|261|388|158	1141|807	0.88	0.3476382	1	0.90	0.72	1.12
STAGE1-2	16	0.454|0.429	1574|2618|1092|1164|1687|665	5284|3516	4.09	0.0432465	1	0.89	0.80	1.00
STAGE2	16	0.450|0.427	1262|2033|848|903|1299|507	4143|2709	3.29	0.0699077	1	0.89	0.79	1.01
CPSII	15	0.471|0.440	152|271|120|101|152|63	543|316	0.55	0.4579435	1	0.88	0.62	1.24
PBCS1	15	0.483|0.457	138|247|121|104|174|74	506|352	0.57	0.4497868	1	0.88	0.63	1.23
PLCO	2	0.449|0.391	298|478|199|167|212|69	975|448	4.64	0.0312518	1	0.72	0.53	0.97
WHI	19	0.443|0.428	755|1175|479|579|835|328	2409|1742	0.79	0.3729467	1	0.93	0.80	1.09
STAGE3	15	0.445|0.445	1109|1730|719|484|795|309	3558|1588	0.26	0.6103954	1	0.96	0.83	1.12
NHS2	11	0.440|0.432	363|535|227|106|166|61	1125|333	0.54	0.4628408	1	0.89	0.65	1.22
PBCS2	6	0.457|0.451	518|863|368|211|357|141	1749|709	0.55	0.4563158	1	0.92	0.74	1.15
WHS	11	0.424|0.445	228|332|124|167|272|107	684|546	0.67	0.4115616	1	1.13	0.85	1.51
PBCS 1+2	8	0.463|0.452	656|1106|488|315|531|214	2250|1060	1.40	0.2364038	1	0.90	0.75	1.07

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	------------	-----------------

STAGE1-3	15	0.372|0.367	3513|4015|1265/2027|2376|676	8793|5079	2.73	0.0983925	1	0.92	0.83	1.02
NHS	20	0.371|0.366	452|529|159/323|377|107	1140|807	0.23	0.6317859	1	0.94	0.72	1.22
STAGE1-2	10	0.375|0.364	2110|2378|788/1393|1684|438	5276|3515	10.00	0.0015639	1	0.82	0.72	0.93
STAGE2	7	0.376|0.364	1658|1849|629/1070|1307|331	4136|2708	11.19	0.0008225	1	0.78	0.68	0.90
CPSII	3	0.371|0.339	217|240|79/132|150|31	536|313	4.61	0.0318004	1	0.62	0.40	0.96
PBCS1	3	0.387|0.375	195|230|81/125|190|37	506|352	5.18	0.0228381	1	0.62	0.40	0.94
PLCO	4	0.376|0.360	398|416|157/180|213|55	971|448	3.35	0.0670598	1	0.73	0.52	1.02
WHI	13	0.372|0.365	971|1084|353/693|828|221	2408|1742	3.22	0.0729419	1	0.85	0.71	1.02
STAGE3	5	0.369|0.373	1403|1641|477/634|693|238	3521|1565	2.70	0.10024	1	1.15	0.97	1.37
NHS2	2	0.341|0.392	493|477|140/129|154|56	1110|339	3.60	0.0578116	1	1.39	0.99	1.94
PBCS2	2	0.380|0.381	656|853|236/275|321|108	1745|704	1.84	0.1745979	1	1.19	0.93	1.52
WHS	18	0.385|0.351	254|311|101/230|218|74	666|522	0.20	0.6545431	1	0.93	0.67	1.29
PBCS 1+2	21	0.381|0.379	851|1079|317/400|510|145	2247|1055	0.03	0.867966	1	0.98	0.79	1.22

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	16	0.261|0.273	4211|2933|535/2281|1695|328	7679|4304	2.29	0.1306162	1	1.12	0.97	1.29
STAGE1-2	14	0.252|0.275	2304|1588|250/1429|1071|209	4142|2709	6.94	0.0084311	1	1.29	1.06	1.56
STAGE2	12	0.252|0.275	2304|1588|250/1429|1071|209	4142|2709	6.79	0.0091764	1	1.29	1.06	1.56
CPSII	17	0.247|0.266	309|198|35/173|118|25	542|316	0.28	0.5960563	1	1.16	0.67	1.98
PBCS1	11	0.246|0.265	293|177|36/198|123|32	506|353	1.35	0.2453639	1	1.35	0.81	2.24
PLCO	5	0.230|0.271	569|364|42/235|182|30	975|447	2.94	0.0863305	1	1.54	0.94	2.51
WHI	18	0.263|0.280	1302|949|158/901|708|133	2409|1742	1.95	0.162838	1	1.19	0.93	1.51
STAGE3	12	0.271|0.270	1907|1349|285/852|624|119	3541|1595	0.47	0.4944065	1	0.92	0.74	1.16
NHS2	16	0.269|0.281	611|397|100/176|134|28	1108|338	0.18	0.6753068	1	0.91	0.59	1.41
PBCS2	9	0.273|0.265	926|696|131/381|280|48	1753|709	0.47	0.4936051	1	0.89	0.63	1.25
WHS	23	0.268|0.270	370|256|54/295|210|43	680|548	0.00	0.9603242	1	1.01	0.66	1.54
PBCS 1+2	22	0.267|0.265	1219|869|167/579|403|80	2255|1062	0.00	0.9656823	1	1.01	0.76	1.33

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	17	0.227|0.243	5293|3091|463/2906|1906|288	8847|5100	2.21	0.1373443	1	1.12	0.96	1.31
NHS	11	0.220|0.262	689|402|50/433|325|49	1141|807	3.11	0.0778363	1	1.44	0.96	2.16
STAGE1-2	15	0.228|0.248	3133|1895|256/1984|1323|210	5284|3517	6.83	0.0089755	1	1.27	1.05	1.54
STAGE2	15	0.230|0.244	2444|1493|206/1551|998|161	4143|2710	3.51	0.0609587	1	1.23	0.99	1.52
CPSII	4	0.215|0.222	326|200|17/193|106|17	543|316	3.24	0.0720766	1	1.88	0.94	3.79
PBCS1	9	0.226|0.231	299|185|22/213|117|23	506|353	2.25	0.1333174	1	1.59	0.86	2.94
PLCO	16	0.236|0.253	578|334|63/247|175|26	975|448	0.19	0.6620274	1	0.90	0.56	1.45
WHI	15	0.229|0.247	1421|875|113/985|654|103	2409|1742	3.03	0.0818347	1	1.28	0.97	1.68
STAGE3	11	0.226|0.234	2160|1196|207/922|585|79	3563|1586	0.83	0.3608993	1	0.88	0.67	1.16
NHS2	13	0.228|0.241	687|372|72/190|124|18	1131|332	0.38	0.5388816	1	0.85	0.50	1.44
PBCS2	16	0.226|0.225	1063|591|102/427|240|39	1756|706	0.13	0.7140475	1	0.93	0.64	1.36
WHS	14	0.221|0.242	410|233|33/305|221|22	676|548	0.53	0.4654874	1	0.81	0.47	1.42
PBCS 1+2	17	0.226|0.226	1362|776|124/640|355|61	2262|1056	0.19	0.6602341	1	1.07	0.78	1.48

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	18	0.395|0.385	2822|3643|1205/1621|2044|634	7670|4299	1.88	0.1705625	1	0.93	0.84	1.03

STAGE1-2	18	0.398|0.383	1509|1968|666/1028|1286|396	4143|2710	2.66	0.103015	1	0.89	0.78	1.02
STAGE2	17	0.398|0.383	1509|1968|666/1028|1286|396	4143|2710	2.69	0.1012146	1	0.89	0.78	1.02
CPSII	8	0.394|0.413	201|256|86/96|179|41	543|316	1.43	0.232324	1	0.78	0.52	1.17
PBCS1	17	0.409|0.375	176|246|84/140|161|52	506|353	0.28	0.5972217	1	0.90	0.62	1.32
PLCO	12	0.393|0.394	355|474|146/170|203|75	975|448	0.77	0.3799651	1	1.15	0.84	1.56
WHI	12	0.397|0.378	890|1125|394/672|822|248	2409|1742	3.51	0.060988	1	0.85	0.71	1.01
STAGE3	20	0.390|0.388	1315|1676|539/593|760|238	3530|1591	0.08	0.7794544	1	0.98	0.83	1.16
NHS2	4	0.382|0.370	428|504|169/128|165|41	1101|334	1.97	0.1600613	1	0.77	0.53	1.11
PBCS2	7	0.399|0.398	621|858|268/263|330|118	1747|711	0.53	0.4675461	1	1.09	0.86	1.39
WHS	22	0.380|0.387	266|314|102/202|265|79	682|546	0.02	0.8878245	1	0.98	0.71	1.34
PBCS 1+2	19	0.402|0.390	795|1103|352/403|489|170	2250|1062	0.08	0.774847	1	1.03	0.84	1.26

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	19	0.034|0.026	8222|583|10/4833|251|9	8815|5093	1.54	0.2139323	1	1.78	0.71	4.50
NHS	22	0.034|0.026	1063|78|0/765|42|0	1141|807	-		1	1.00	1.00	1.00
STAGE1-2	22	0.034|0.025	4926|356|2/3341|174|2	5284|3517	0.26	0.6120144	1	1.66	0.23	11.99
STAGE2	21	0.034|0.025	3863|278|2/2576|132|2	4143|2710	0.26	0.6112874	1	1.66	0.23	12.04
CPSII	24	0.030|0.019	510|33|0/305|10|1	543|316						
PBCS1	22	0.033|0.024	473|33|0/336|17|0	506|353	-		1	1.00	1.00	1.00
PLCO	24	0.036|0.026	906|68|1/425|23|0	975|448						
WHI	23	0.034|0.025	2245|163|1/1655|86|1	2409|1742	0.06	0.8073679	1	1.41	0.09	22.59
STAGE3	7	0.034|0.029	3296|227|8/1493|77|7	3531|1577	1.35	0.2446899	1	1.84	0.65	5.24
NHS2	9	0.039|0.030	1029|77|5/321|14|3	1111|338	0.87	0.3503788	1	1.96	0.47	8.25
PBCS2	24	0.032|0.028	1648|112|1/669|40|0	1761|709						
WHS	9	0.032|0.029	619|38|2/503|23|4	659|530	1.04	0.3077379	1	2.37	0.43	13.06
PBCS 1+2	24	0.032|0.027	2121|145|1/1004|57|0	2267|1061						

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	20	0.094|0.109	7261|1521|74/4054|1012|52	8856|5118	1.49	0.222786	1	1.25	0.87	1.80
NHS	9	0.085|0.108	951|185|5/642|155|10	1141|807	4.20	0.0405197	1	2.94	1.00	8.68
STAGE1-2	20	0.089|0.110	4388|849|47/2781|693|41	5284|3515	1.43	0.2318943	1	1.29	0.85	1.98
STAGE2	22	0.090|0.111	3437|664|42/2139|538|31	4143|2708	0.15	0.6948482	1	1.10	0.69	1.76
CPSII	18	0.099|0.111	444|90|9/250|62|4	543|316	0.22	0.6373953	1	0.75	0.23	2.49
PBCS1	21	0.094|0.123	417|83|6/270|79|4	506|353	0.00	0.9805609	1	0.98	0.27	3.57
PLCO	19	0.077|0.106	832|135|8/357|87|4	975|448	0.02	0.8836901	1	1.10	0.32	3.72
WHI	20	0.094|0.110	1982|403|24/1378|341|21	2409|1740	0.43	0.5097469	1	1.22	0.67	2.21
STAGE3	14	0.102|0.106	2873|673|27/1275|319|11	3573|1605	0.26	0.6088308	1	1.20	0.59	2.44
NHS2	8	0.103|0.099	905|207|12/280|56|6	1124|342	1.00	0.3166356	1	1.65	0.61	4.43
PBCS2	20	0.104|0.107	1412|338|15/565|143|5	1765|713	0.05	0.8267081	1	0.89	0.32	2.48
WHS	24	0.094|0.109	556|128|0/430|120|0	684|550	-		1	1.00	1.00	1.00
PBCS 1+2	18	0.102|0.113	1829|420|21/833|222|9	2270|1064	0.11	0.7458701	1	0.88	0.40	1.94

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	21	0.374|0.367	3426|4157|1207/2093|2255|738	8790|5086	1.00	0.3173477	1	1.05	0.95	1.16
NHS	17	0.382|0.374	429|553|159/329|353|125	1141|807	0.65	0.4207389	1	1.11	0.86	1.43

STAGE1-2	19	0.383|0.368	1953|2611|714/1447|1549|517	5278|3513	1.56	0.2118001	1	1.08	0.96	1.22
STAGE2	19	0.383|0.366	1524|2058|555/1118|1196|392	4137|2706	0.96	0.3261871	1	1.07	0.93	1.24
CP5II	12	0.377|0.359	216|242|83/131|143|42	541|316	0.86	0.352564	1	0.83	0.55	1.24
PBCS1	18	0.375|0.334	193|244|67/160|150|43	504|353	0.20	0.6550775	1	0.91	0.60	1.38
PLCO	21	0.371|0.354	371|484|120/188|200|58	975|446	0.00	0.9724687	1	0.99	0.70	1.40
WHI	10	0.385|0.378	871|1215|320/694|776|270	2406|1740	4.00	0.045434	1	1.20	1.00	1.43
STAGE3	23	0.361|0.365	1473|1545|494/646|707|221	3512|1574	0.01	0.9377012	1	0.99	0.83	1.18
NHS2	20	0.364|0.373	446|495|150/133|153|48	1091|334	0.08	0.7814882	1	1.05	0.74	1.49
PBCS2	10	0.359|0.382	732|784|238/269|335|102	1754|706	0.46	0.4981648	1	1.09	0.85	1.40
WHS	7	0.358|0.338	295|266|106/244|219|71	667|534	1.32	0.2505137	1	0.83	0.60	1.14
PBCS 1+2	20	0.362|0.366	925|1029|304/429|484|145	2258|1058	0.08	0.7802659	1	1.03	0.83	1.28

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	22	0.259|0.282	2201|1519|277/978|787|146	3997|1911	0.76	0.3834227	1	1.10	0.89	1.36
STAGE3	21	0.259|0.278	1945|1325|250/817|646|116	3520|1579	0.07	0.7855606	1	1.03	0.82	1.30
NHS2	5	0.256|0.285	607|415|73/173|133|29	1095|335	1.53	0.2160407	1	1.33	0.85	2.08
PBCS2	18	0.259|0.288	969|667|121/350|308|50	1757|708	0.07	0.7847979	1	1.05	0.74	1.48
WHS	10	0.266|0.260	369|243|56/294|205|37	668|536	0.86	0.3546583	1	0.82	0.53	1.26
PBCS 1+2	11	0.259|0.293	1225|861|148/511|449|80	2234|1040	1.15	0.2844227	1	1.17	0.88	1.55

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	23	0.258|0.250	4826|3425|560/2885|1879|337	8811|5101	0.49	0.4853141	1	1.05	0.91	1.21
NHS	18	0.256|0.247	634|430|77/470|276|61	1141|807	0.43	0.512331	1	1.12	0.79	1.60
STAGE1-2	21	0.263|0.247	2851|2086|344/2020|1258|238	5281|3516	0.29	0.5928223	1	1.05	0.88	1.25
STAGE2	23	0.264|0.247	2217|1656|267/1550|982|177	4140|2709	0.05	0.8166463	1	1.02	0.84	1.25
CP5II	20	0.266|0.222	286|224|32/197|98|21	542|316	0.11	0.7453774	1	1.10	0.62	1.96
PBCS1	19	0.247|0.229	284|193|28/212|119|21	505|352	0.12	0.7334285	1	1.11	0.61	2.01
PLCO	15	0.263|0.253	526|385|64/254|161|33	975|448	0.28	0.5941658	1	1.13	0.72	1.76
WHI	21	0.270|0.249	1272|973|163/983|649|110	2408|1742	0.31	0.5807631	1	0.93	0.73	1.20
STAGE3	17	0.251|0.258	1975|1339|216/865|621|98	3530|1584	0.17	0.677574	1	1.05	0.82	1.36
NHS2	22	0.266|0.239	598|438|77/198|117|22	1113|337	0.06	0.8041522	1	0.94	0.58	1.54
PBCS2	12	0.245|0.268	993|643|105/372|282|47	1741|701	0.42	0.5172752	1	1.13	0.79	1.61
WHS	21	0.241|0.256	384|258|34/295|222|29	676|546	0.06	0.8138009	1	1.06	0.64	1.77
PBCS 1+2	14	0.245|0.256	1277|836|133/584|401|69	2246|1054	0.66	0.4176891	1	1.13	0.84	1.54

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	24	0.225|0.209	5271|3090|432/3197|1647|236	8793|5080	0.12	0.7258511	1	0.97	0.82	1.14
NHS	13	0.220|0.189	694|392|55/529|251|27	1141|807	2.20	0.1383192	1	0.70	0.44	1.12
STAGE1-2	23	0.220|0.200	3182|1875|227/2262|1101|152	5284|3515	0.02	0.9007959	1	1.01	0.82	1.25
STAGE2	20	0.220|0.203	2488|1483|172/1733|850|125	4143|2708	0.84	0.3591234	1	1.12	0.88	1.42
CP5II	1	0.217|0.213	323|203|16/201|94|20	542|315	5.60	0.0179345	1	2.23	1.13	4.41
PBCS1	7	0.244|0.249	284|197|25/204|121|27	506|352	3.04	0.0811756	1	1.66	0.94	2.93
PLCO	7	0.229|0.195	577|350|48/288|145|15	975|448	1.88	0.1703463	1	0.66	0.36	1.20
WHI	22	0.213|0.194	1476|838|95/1138|530|73	2409|1741	0.12	0.7258845	1	1.06	0.77	1.44
STAGE3	13	0.232|0.228	2090|1217|205/936|547|83	3512|1566	0.40	0.5246446	1	0.92	0.70	1.20

NHS2	24	0.200|0.216	712|332|53|202|112|15	1097|329	0.04	0.8353623	1	0.94	0.52	1.69
PBCS2	21	0.252|0.245	980|644|117|402|254|45	1741|701	0.04	0.8325276	1	0.96	0.67	1.38
WHS	13	0.231|0.212	398|241|35|332|181|23	674|536	0.61	0.4340359	1	0.81	0.47	1.38
PBCS 1+2	15	0.250|0.247	1263|839|142|605|374|73	2244|1052	0.52	0.4702286	1	1.11	0.83	1.50

unadj_geno

Locus	Alleles	Chr	Location	Neighborhood
rs11249433	T|C	1p11.2		120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.395|0.439	3394|4265|1474|1655|2556|1017	9133|5228	53.07	2.987E-12	2	1.23	1.14	1.33	1.41	1.28	1.56
NHS	1	0.388|0.448	425|540|170|238|411|155	1135|804	14.86	0.0005921	2	1.36	1.11	1.67	1.63	1.24	2.13
STAGE1-2	2	0.401|0.441	2022|2614|919|1124|1831|695	5555|3650	32.49	8.812E-08	2	1.26	1.15	1.38	1.36	1.20	1.54
STAGE2	3	0.404|0.439	1597|2074|749|886|1420|540	4420|2846	19.86	0.00004873	2	1.23	1.11	1.37	1.30	1.13	1.49
CPSII	6	0.378|0.405	220|235|88|108|159|48	543|315	4.39	0.1112931	2	1.38	1.02	1.87	1.11	0.73	1.69
PBCS1	20	0.387|0.407	195|230|81|124|171|58	506|353	1.07	0.5852003	2	1.17	0.87	1.58	1.13	0.75	1.69
PLCO	19	0.420|0.427	324|476|169|140|232|75	969|447	0.97	0.6161799	2	1.13	0.88	1.45	1.03	0.73	1.44
WHI	2	0.407|0.455	858|1133|411|514|858|359	2402|1731	19.32	0.00006388	2	1.26	1.10	1.46	1.46	1.22	1.74
STAGE3	1	0.385|0.434	1376|1653|555|531|725|322	3584|1578	22.29	0.00001446	2	1.14	1.00	1.30	1.50	1.27	1.78
NHS2	5	0.400|0.440	433|545|197|114|152|73	1175|339	4.25	0.1196367	2	1.06	0.81	1.39	1.41	1.00	1.97
PBCS2	1	0.362|0.410	719|778|240|246|324|121	1737|691	9.19	0.0101021	2	1.22	1.00	1.48	1.47	1.13	1.92
WHS	1	0.421|0.461	224|330|118|171|249|128	672|548	6.31	0.042608	2	0.99	0.76	1.28	1.42	1.03	1.96
PBCS 1+2	1	0.368|0.409	910|1006|321|370|495|179	2237|1044	9.59	0.0082807	2	1.21	1.03	1.42	1.37	1.10	1.71

Locus	Alleles	Chr	Location	Neighborhood
rs999737	C|T	14q24.1		68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.237|0.216	5374|3222|563|3232|1803|234	9159|5269	22.49	0.00001308	2	0.93	0.87	1.00	0.69	0.59	0.81
NHS	7	0.244|0.209	660|405|76|499|278|30	1141|807	8.94	0.0114589	2	0.91	0.75	1.10	0.52	0.34	0.81
STAGE1-2	10	0.238|0.211	3263|1971|341|2274|1237|156	5575|3667	20.42	0.00003676	2	0.90	0.82	0.98	0.66	0.54	0.80
STAGE2	13	0.236|0.212	2603|1566|265|1775|959|126	4434|2860	12.87	0.0016026	2	0.90	0.81	0.99	0.70	0.56	0.87
CPSII	21	0.235|0.223	319|193|31|193|105|18	543|316	0.49	0.782539	2	0.90	0.67	1.21	0.96	0.52	1.76
PBCS1	5	0.242|0.203	291|185|30|219|125|9	506|353	6.02	0.0491689	2	0.90	0.67	1.20	0.40	0.19	0.86
PLCO	3	0.238|0.225	576|334|65|262|170|16	975|448	6.36	4.15E-02	2	1.12	0.88	1.42	0.54	0.31	0.95
WHI	12	0.235|0.208	1417|854|139|1101|559|83	2410|1743	8.47	0.0145128	2	0.84	0.74	0.96	0.77	0.58	1.02
STAGE3	8	0.237|0.225	2112|1254|222|959|567|78	3588|1604	3.58	0.1672989	2	1.00	0.88	1.13	0.77	0.59	1.01
NHS2	17	0.232|0.234	698|374|81|205|120|21	1153|346	0.84	0.6577958	2	1.09	0.84	1.41	0.88	0.53	1.46
PBCS2	14	0.236|0.224	1016|637|94|422|248|34	1747|704	0.78	0.6781444	2	0.94	0.78	1.13	0.87	0.58	1.31
WHS	4	0.245|0.221	398|243|47|332|199|23	688|554	4.17	0.124496	2	0.98	0.77	1.24	0.59	0.35	0.99
PBCS 1+2	6	0.237|0.217	1306|819|124|640|372|43	2249|1055	4.02	0.133801	2	0.93	0.79	1.08	0.71	0.49	1.01

Locus	Alleles	Chr	Location	Neighborhood
rs7716600	C|A	5p12		44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.220|0.243	5595|3136|452|3042|1901|333	9183|5276	21.32	0.00002348	2	1.11	1.04	1.20	1.36	1.17	1.57
NHS	5	0.215|0.253	693|401|44|451|303|53	1138|807	9.62	0.0081544	2	1.16	0.96	1.40	1.85	1.22	2.81
STAGE1-2	1	0.216|0.249	3402|1923|241|2095|1316|253	5566|3664	34.32	3.522E-08	2	1.11	1.02	1.21	1.70	1.42	2.05
STAGE2	1	0.216|0.247	2709|1522|197|1644|1013|200	4428|2857	25.17	0.000003418	2	1.10	0.99	1.21	1.67	1.36	2.06
CPSII	15	0.225|0.241	325|192|26|186|108|22	543|316	1.80	0.4061294	2	0.98	0.73	1.32	1.48	0.81	2.68
PBCS1	4	0.217|0.272	308|173|23|186|139|26	504|351	6.86	0.0324023	2	1.33	1.00	1.77	1.87	1.04	3.38
PLCO	21	0.223|0.232	577|359|37|261|166|21	973|448	0.65	0.7236238	2	1.02	0.81	1.29	1.25	0.72	2.19
WHI	4	0.212|0.247	1499|798|111|1011|600|131	2408|1742	18.16	0.0001139	2	1.11	0.98	1.27	1.75	1.34	2.28

STAGE3	6	0.226|0.231	2193|1215|211|948|587|79	3619|1614	4.94	0.0844957	2	1.12	0.99	1.27	0.87	0.66	1.13
NHS2	12	0.227|0.232	712|397|69|205|131|16	1178|352	2.03	0.3625487	2	1.15	0.89	1.47	0.81	0.46	1.42
PBCS2	9	0.223|0.233	1070|586|98|417|254|38	1754|709	1.31	0.5189829	2	1.11	0.92	1.34	0.80	0.67	1.47
WHS	8	0.233|0.228	411|232|44|326|202|25	687|553	2.66	0.2645721	2	1.10	0.87	1.39	0.72	0.43	1.20
PBCS 1+2	3	0.221|0.246	1378|757|121|602|391|65	2256|1058	5.29	0.0708344	2	1.18	1.01	1.38	1.23	0.90	1.69

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.352|0.376	3857|4174|1135|2089|2392|784	9166|5265	20.51	0.00003516	2	1.06	0.98	1.14	1.28	1.15	1.42
NHS	13	0.356|0.375	459|551|130|325|359|123	1140|807	6.85	0.0324952	2	0.92	0.76	1.12	1.34	1.01	1.78
STAGE1-2	6	0.348|0.376	2351|2568|655|1462|1649|555	5574|3666	22.79	0.00001124	2	1.03	0.94	1.13	1.36	1.20	1.55
STAGE2	8	0.346|0.377	1892|2017|525|1137|1290|432	4434|2859	17.74	0.0001407	2	1.06	0.96	1.18	1.37	1.18	1.59
CPSII	9	0.350|0.351	220|266|57|137|136|43	543|316	3.56	0.1688074	2	0.82	0.61	1.10	1.21	0.77	1.90
PBCS1	17	0.345|0.364	216|231|59|147|154|51	506|352	1.50	0.4711921	2	0.98	0.73	1.31	1.27	0.83	1.95
PLCO	5	0.333|0.376	437|427|111|170|219|59	975|448	5.97	0.0505344	2	1.32	1.04	1.68	1.37	0.95	1.96
WHI	6	0.350|0.384	1019|1093|298|683|781|279	2410|1743	12.09	0.0023713	2	1.07	0.93	1.22	1.40	1.16	1.69
STAGE3	11	0.357|0.375	1507|1610|480|628|743|229	3597|1600	3.34	0.1885581	2	1.11	0.98	1.26	1.14	0.95	1.37
NHS2	23	0.367|0.366	482|523|170|147|152|53	1175|352	0.21	0.9010014	2	0.95	0.74	1.23	1.02	0.71	1.46
PBCS2	11	0.349|0.365	744|779|218|286|322|96	1741|704	1.12	0.5699303	2	1.08	0.89	1.30	1.15	0.87	1.51
WHS	5	0.361|0.394	281|308|92|195|269|80	681|544	3.74	0.1544191	2	1.26	0.98	1.61	1.25	0.88	1.78
PBCS 1+2	12	0.348|0.365	959|1006|277|432|476|147	2242|1055	1.97	0.3739565	2	1.05	0.90	1.23	1.18	0.94	1.48

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.156|0.161	6502|2482|193|3746|1354|170	9177|5270	19.13	0.00007022	2	0.95	0.88	1.02	1.53	1.24	1.89
NHS	14	0.159|0.168	807|306|28|572|199|36	1141|807	6.65	0.0360286	2	0.92	0.75	1.13	1.81	1.09	3.01
STAGE1-2	4	0.156|0.161	3940|1525|106|2613|923|129	5571|3665	26.82	0.000001499	2	0.91	0.83	1.00	1.84	1.41	2.38
STAGE2	4	0.155|0.159	3133|1219|78|2041|724|93	4430|2858	19.74	0.00005177	2	0.91	0.82	1.02	1.83	1.35	2.49
CPSII	13	0.173|0.171	368|161|13|220|84|12	542|316	2.11	0.3483875	2	0.87	0.64	1.19	1.54	0.69	3.44
PBCS1	1	0.138|0.156	373|123|8|259|76|17	504|352	8.17	0.0168166	2	0.89	0.64	1.23	3.06	1.30	7.20
PLCO	12	0.156|0.160	688|270|17|318|117|13	975|448	2.24	0.3260978	2	0.94	0.73	1.21	1.65	0.79	3.45
WHI	9	0.155|0.158	1704|665|40|1244|447|51	2409|1742	8.90	0.0116905	2	0.92	0.80	1.06	1.75	1.15	2.66
STAGE3	22	0.157|0.160	2562|957|86|1133|431|41	3605|1605	0.20	0.9026505	2	1.02	0.89	1.16	1.08	0.74	1.57
NHS2	14	0.167|0.153	811|332|30|254|88|10	1173|352	1.51	0.4701615	2	0.85	0.64	1.11	1.06	0.51	2.21
PBCS2	15	0.148|0.158	1266|440|38|496|184|18	1744|698	0.76	0.6840249	2	1.07	0.87	1.31	1.21	0.68	2.14
WHS	20	0.161|0.167	485|185|18|383|159|13	688|555	0.53	0.7660745	2	1.09	0.85	1.40	0.91	0.44	1.89
PBCS 1+2	4	0.146|0.157	1639|563|47|755|260|35	2249|1050	4.57	0.1019014	2	1.00	0.85	1.19	1.62	1.03	2.53

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.034|0.026	8545|608|10|4997|257|9	9163|5263	19.11	0.00007097	2	0.72	0.62	0.84	1.54	0.63	3.79
NHS	22	0.034|0.026	1063|78|0|765|42|0	1141|807									
STAGE1-2	16	0.034|0.025	5197|376|2|3487|178|2	5575|3667	14.19	0.0008299	2	0.71	0.59	0.85	1.49	0.21	10.59
STAGE2	14	0.034|0.024	4134|298|2|2722|136|2	4434|2860	12.18	0.0022647	2	0.69	0.56	0.85	1.52	0.21	10.79
CPSII	24	0.030|0.019	510|33|0|305|10|1	543|316									
PBCS1	22	0.033|0.024	473|33|0|336|17|0	506|353									
PLCO	24	0.036|0.026	906|68|1|425|23|0	975|448									
WHI	13	0.034|0.025	2245|164|1|1656|86|1	2410|1743	6.31	0.0427406	2	0.71	0.54	0.93	1.36	0.08	21.69

STAGE3	3	0.035|0.029	3348|232|8|1511|79|7	3588|1597	6.22	0.0444984	2	0.75	0.58	0.98	1.94	0.70	5.36
NHS2	4	0.040|0.030	1074|82|5|334|15|3	1161|352	4.38	0.1119677	2	0.59	0.33	1.03	1.93	0.46	8.12
PBCS2	24	0.032|0.028	1648|112|1|669|40|0	1761|709									
WHS	10	0.032|0.030	626|38|2|508|24|4	666|536	2.07	0.3550594	2	0.78	0.46	1.31	2.46	0.45	13.51
PBCS 1+2	24	0.032|0.027	2121|145|1|1004|57|0	2267|1061									

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.094|0.109	7550|1579|79|4185|1048|54	9208|5287	17.57	0.0001531	2	1.20	1.10	1.31	1.23	0.87	1.75
NHS	12	0.085|0.108	951|185|5|642|155|10	1141|807	7.20	0.0273758	2	1.24	0.98	1.57	2.96	1.01	8.71
STAGE1-2	7	0.090|0.111	4627|896|52|2898|724|43	5575|3665	22.53	0.00001282	2	1.29	1.16	1.44	1.32	0.88	1.98
STAGE2	5	0.091|0.111	3676|711|47|2256|569|33	4434|2858	18.36	0.0001029	2	1.30	1.15	1.47	1.14	0.73	1.79
CPSII	18	0.099|0.111	444|90|9|250|62|4	543|316	1.42	0.4907231	2	1.22	0.85	1.75	0.79	0.24	2.59
PBCS1	9	0.094|0.123	417|83|6|270|79|4	506|353	4.86	0.0882352	2	1.47	1.04	2.07	1.03	0.29	3.68
PLCO	2	0.077|0.106	832|135|8|357|87|4	975|448	7.30	0.0259644	2	1.50	1.12	2.02	1.17	0.35	3.89
WHI	14	0.094|0.110	1983|403|24|1379|341|21	2410|1741	6.22	0.0446059	2	1.22	1.04	1.43	1.26	0.70	2.27
STAGE3	16	0.102|0.107	2923|684|27|1289|324|11	3634|1624	0.97	0.6154436	2	1.07	0.93	1.24	0.92	0.46	1.87
NHS2	13	0.103|0.100	947|218|12|290|59|6	1177|355	1.64	0.4402611	2	0.88	0.64	1.21	1.63	0.61	4.39
PBCS2	18	0.104|0.107	1412|338|15|565|143|5	1765|713	0.39	0.822758	2	1.06	0.85	1.32	0.83	0.30	2.30
WHS	24	0.092|0.110	564|128|0|434|122|0	692|556									
PBCS 1+2	10	0.102|0.113	1829|420|21|833|222|9	2270|1064	2.62	0.2693796	2	1.16	0.97	1.39	0.94	0.43	2.06

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.137|0.121	6878|2122|195|4075|1120|78	9195|5273	15.08	0.0005319	2	0.89	0.82	0.97	0.68	0.52	0.88
NHS	8	0.153|0.121	818|296|27|624|169|13	1141|806	8.29	0.0158325	2	0.75	0.60	0.93	0.63	0.32	1.23
STAGE1-2	12	0.143|0.121	4102|1351|122|2831|783|52	5575|3666	18.79	0.00008301	2	0.84	0.76	0.93	0.62	0.44	0.86
STAGE2	15	0.140|0.121	3284|1055|95|2207|614|39	4434|2860	12.07	0.0023898	2	0.87	0.77	0.97	0.61	0.42	0.89
CPSII	5	0.140|0.114	398|138|7|250|60|6	543|316	4.97	0.0834805	2	0.69	0.49	0.97	1.36	0.45	4.11
PBCS1	3	0.153|0.110	364|129|13|278|72|3	506|353	6.90	0.0317149	2	0.73	0.53	1.01	0.30	0.09	1.07
PLCO	10	0.132|0.116	738|216|21|348|96|4	975|448	3.01	0.2219578	2	0.94	0.72	1.24	0.40	0.14	1.19
WHI	16	0.141|0.126	1784|572|54|1331|386|26	2410|1743	4.79	0.0912078	2	0.90	0.78	1.05	0.65	0.40	1.04
STAGE3	15	0.127|0.122	2778|774|73|1244|340|26	3625|1610	1.02	0.5990943	2	0.98	0.85	1.13	0.80	0.51	1.25
NHS2	20	0.127|0.117	907|259|21|272|72|5	1187|349	0.44	0.8028168	2	0.93	0.69	1.24	0.79	0.30	2.13
PBCS2	20	0.124|0.119	1344|368|32|554|145|12	1744|711	0.23	0.8915869	2	0.96	0.77	1.19	0.91	0.47	1.78
WHS	9	0.135|0.128	527|147|20|418|123|9	694|550	2.24	0.3263727	2	1.05	0.80	1.38	0.57	0.26	1.26
PBCS 1+2	8	0.130|0.115	1706|494|45|832|214|15	2245|1061	3.07	0.2154655	2	0.89	0.74	1.06	0.68	0.38	1.23

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.225|0.208	5470|3225|447|3307|1695|246	9142|5248	14.47	0.0007227	2	0.87	0.81	0.94	0.91	0.77	1.07
NHS	16	0.220|0.189	694|392|55|529|251|27	1141|807	5.64	0.059612	2	0.84	0.69	1.02	0.64	0.40	1.03
STAGE1-2	11	0.220|0.200	3355|1980|239|2361|1141|162	5574|3664	19.10	0.00007126	2	0.82	0.75	0.90	0.96	0.78	1.18
STAGE2	9	0.221|0.203	2661|1588|184|1832|890|135	4433|2857	17.19	0.000185	2	0.81	0.74	0.90	1.07	0.85	1.34
CPSII	1	0.217|0.213	323|203|16|201|94|20	542|315	9.38	0.0091704	2	0.74	0.55	1.01	2.01	1.02	3.97
PBCS1	12	0.244|0.249	284|197|25|204|121|27	506|352	3.84	0.1467675	2	0.86	0.64	1.14	1.50	0.85	2.67
PLCO	8	0.229|0.195	577|350|48|288|145|15	975|448	4.14	0.1263961	2	0.83	0.65	1.05	0.63	0.34	1.14
WHI	11	0.213|0.194	1477|838|95|1139|530|73	2410|1742	8.65	0.0132398	2	0.82	0.72	0.94	1.00	0.73	1.37

STAGE3	19	0.233|0.227	2116|1247|208/947|555|83	3571|1585	0.72	0.69753	2	0.99	0.88	1.13	0.89	0.68	1.16
NHS2	15	0.205|0.215	734|358|56/210|117|15	1148|342	1.16	0.5605433	2	1.14	0.88	1.48	0.94	0.52	1.69
PBCS2	19	0.252|0.245	980|644|117/402|254|45	1741|701	0.24	0.8848714	2	0.96	0.80	1.16	0.94	0.65	1.35
WHS	15	0.231|0.212	402|245|35/335|184|23	682|542	1.25	0.5350964	2	0.90	0.71	1.15	0.79	0.46	1.36
PBCS 1+2	15	0.250|0.247	1263|839|142/605|374|73	2244|1052	1.26	0.5333777	2	0.93	0.80	1.09	1.07	0.80	1.45

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.161|0.176	6467|2446|251/3610|1460|197	9164|5267	14.08	0.0008754	2	1.07	0.99	1.15	1.41	1.16	1.70
NHS	11	0.151|0.179	814|310|17/542|240|24	1141|806	7.24	0.0267956	2	1.16	0.95	1.42	2.12	1.13	3.98
STAGE1-2	3	0.151|0.176	4007|1454|114/2510|1021|135	5575|3666	28.24	7.373E-07	2	1.12	1.02	1.23	1.89	1.47	2.44
STAGE2	2	0.151|0.175	3193|1144|97/1968|781|111	4434|2860	21.50	0.00002147	2	1.11	1.00	1.23	1.86	1.41	2.45
CPSII	14	0.159|0.171	383|147|13/221|82|13	543|316	2.06	0.3576262	2	0.97	0.70	1.33	1.73	0.79	3.80
PBCS1	10	0.191|0.231	335|149|22/208|127|18	506|353	4.76	0.0927096	2	1.37	1.02	1.84	1.32	0.69	2.52
PLCO	16	0.144|0.156	714|241|20/322|112|14	975|448	1.57	0.4564752	2	1.03	0.79	1.34	1.55	0.77	3.11
WHI	3	0.143|0.170	1761|607|42/1217|460|66	2410|1743	18.31	0.0001058	2	1.10	0.95	1.26	2.27	1.53	3.37
STAGE3	24	0.176|0.176	2460|993|137/1100|440|62	3590|1602	0.03	0.9866891	2	0.99	0.87	1.13	1.01	0.74	1.38
NHS2	16	0.170|0.162	810|306|44/249|82|15	1160|346	1.12	0.5723347	2	0.87	0.66	1.16	1.11	0.61	2.03
PBCS2	21	0.190|0.188	1158|519|73/467|211|27	1750|705	0.16	0.9245628	2	1.01	0.83	1.22	0.92	0.58	1.44
WHS	17	0.153|0.170	492|168|20/384|147|20	680|551	1.21	0.5460528	2	1.12	0.87	1.45	1.28	0.68	2.42
PBCS 1+2	13	0.190|0.202	1493|667|95/675|337|45	2255|1057	1.87	0.3926005	2	1.12	0.95	1.31	1.05	0.73	1.51

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.408|0.430	3249|4351|1557/1736|2512|998	9157|5246	13.27	0.0013121	2	1.08	1.00	1.17	1.20	1.09	1.32
NHS	2	0.392|0.437	429|513|185/240|421|139	1127|800	13.90	0.0009596	2	1.47	1.20	1.80	1.34	1.02	1.76
STAGE1-2	20	0.403|0.428	1986|2660|913/1209|1769|681	5559|3659	10.81	0.0045	2	1.09	1.00	1.20	1.23	1.08	1.38
STAGE2	20	0.406|0.425	1557|2147|728/969|1348|542	4432|2859	7.77	0.0205438	2	1.01	0.91	1.12	1.20	1.04	1.37
CPSII	12	0.427|0.389	178|265|99/121|144|51	542|316	2.68	0.2618329	2	0.80	0.59	1.09	0.76	0.50	1.14
PBCS1	8	0.410|0.463	174|249|83/97|185|71	506|353	5.16	0.075644	2	1.33	0.97	1.82	1.53	1.03	2.30
PLCO	18	0.408|0.407	339|475|160/163|205|80	974|448	1.17	0.5572342	2	0.90	0.70	1.15	1.04	0.75	1.44
WHI	10	0.400|0.429	866|1158|386/588|814|340	2410|1742	8.83	0.0120828	2	1.04	0.90	1.19	1.30	1.08	1.55
STAGE3	7	0.414|0.434	1263|1694|645/528|747|319	3602|1594	3.85	0.1456004	2	1.05	0.92	1.21	1.18	1.00	1.40
NHS2	2	0.399|0.447	436|540|199/111|161|74	1175|346	4.85	0.0886268	2	1.17	0.89	1.54	1.46	1.04	2.05
PBCS2	12	0.424|0.440	593|833|328/226|346|140	1754|712	1.03	0.5981324	2	1.09	0.89	1.33	1.12	0.87	1.44
WHS	14	0.414|0.420	234|321|118/191|240|105	673|536	1.30	0.5231269	2	0.92	0.71	1.18	1.09	0.79	1.51
PBCS 1+2	5	0.421|0.447	767|1079|410/322|527|209	2256|1058	4.33	0.1147069	2	1.16	0.98	1.37	1.21	0.98	1.50

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.226|0.243	5514|3211|475/3003|1970|297	9200|5270	12.12	0.0023401	2	1.13	1.05	1.21	1.15	0.99	1.34
NHS	6	0.220|0.262	689|402|50/433|325|49	1141|807	9.59	0.0082689	2	1.29	1.06	1.55	1.56	1.03	2.35
STAGE1-2	19	0.227|0.247	3314|1996|265/2072|1377|218	5575|3667	11.14	0.0038046	2	1.10	1.01	1.20	1.32	1.09	1.59
STAGE2	21	0.228|0.243	2625|1594|215/1639|1052|169	4434|2860	5.11	0.0776195	2	1.06	0.96	1.17	1.26	1.02	1.55
CPSII	11	0.215|0.222	326|200|17/193|106|17	543|316	3.19	0.2024462	2	0.90	0.67	1.20	1.69	0.84	3.39
PBCS1	14	0.226|0.231	299|185|22/213|117|23	506|353	2.61	0.2711531	2	0.89	0.66	1.19	1.47	0.80	2.70
PLCO	9	0.236|0.253	578|334|63/247|175|26	975|448	3.11	0.2116434	2	1.23	0.97	1.55	0.97	0.60	1.56
WHI	18	0.228|0.247	1422|875|113/986|654|103	2410|1743	4.34	0.1143651	2	1.08	0.95	1.23	1.31	0.99	1.74

STAGE3	2	0.226|0.235	2200|1215|210|931|595|80	3625|1606	6.71	0.0349251	2	1.16	1.02	1.31	0.90	0.69	1.18
NHS2	6	0.225|0.244	724|388|73|196|131|19	1185|346	3.15	0.2068316	2	1.25	0.97	1.61	0.96	0.57	1.63
PBCS2	22	0.226|0.225	1063|591|102|427|240|39	1756|706	0.09	0.9567059	2	1.01	0.84	1.22	0.95	0.65	1.40
WHS	2	0.224|0.242	413|236|35|308|224|22	684|554	4.97	0.0832005	2	1.27	1.01	1.61	0.84	0.48	1.47
PBCS 1+2	20	0.226|0.226	1362|776|124|640|355|61	2262|1056	0.23	0.8910475	2	0.97	0.83	1.14	1.05	0.76	1.44

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.220|0.219	5556|3162|430|3251|1707|300	9148|5258	11.67	0.0029256	2	0.92	0.86	0.99	1.19	1.02	1.39
NHS	9	0.218|0.222	691|402|48|502|251|54	1141|807	8.19	0.0166881	2	0.86	0.71	1.04	1.55	1.03	2.32
STAGE1-2	5	0.218|0.216	3371|1979|225|2293|1165|209	5575|3667	23.61	0.000007462	2	0.87	0.79	0.95	1.37	1.12	1.66
STAGE2	11	0.218|0.214	2680|1577|177|1791|914|155	4434|2860	15.76	0.000378	2	0.87	0.78	0.96	1.31	1.05	1.64
CPSII	8	0.215|0.199	328|197|18|205|96|15	543|316	3.75	0.1535427	2	0.78	0.58	1.05	1.33	0.66	2.70
PBCS1	13	0.242|0.245	282|203|21|203|127|23	506|353	3.32	0.1905468	2	0.87	0.65	1.16	1.52	0.82	2.82
PLCO	22	0.214|0.218	603|326|46|277|147|24	975|448	0.29	0.8646557	2	0.98	0.77	1.25	1.14	0.68	1.90
WHI	7	0.215|0.209	1467|851|92|1106|544|93	2410|1743	11.39	0.0033698	2	0.85	0.74	0.97	1.34	0.99	1.81
STAGE3	20	0.223|0.228	2185|1184|205|958|544|91	3574|1593	0.53	0.7691026	2	1.05	0.92	1.19	1.01	0.78	1.31
NHS2	24	0.211|0.211	723|368|59|214|112|16	1150|342	0.16	0.924608	2	1.03	0.79	1.33	0.92	0.52	1.63
PBCS2	6	0.234|0.254	1042|597|112|398|260|50	1751|708	2.27	0.3209765	2	1.14	0.95	1.37	1.17	0.82	1.66
WHS	22	0.213|0.204	420|219|34|346|172|25	673|543	0.28	0.8709	2	0.95	0.75	1.22	0.89	0.52	1.52
PBCS 1+2	14	0.236|0.251	1324|799|133|601|385|73	2256|1059	1.80	0.4069963	2	1.06	0.91	1.24	1.21	0.89	1.63

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.208|0.224	5732|3020|388|3177|1825|269	9140|5271	11.11	0.0038676	2	1.09	1.01	1.17	1.25	1.06	1.47
NHS	4	0.204|0.245	718|381|42|457|304|46	1141|807	9.83	0.0073182	2	1.25	1.04	1.52	1.72	1.11	2.66
STAGE1-2	13	0.207|0.228	3472|1895|208|2196|1270|201	5575|3667	17.65	0.0001474	2	1.06	0.97	1.16	1.53	1.25	1.87
STAGE2	16	0.208|0.223	2754|1514|166|1739|966|155	4434|2860	11.65	0.0029592	2	1.01	0.91	1.12	1.48	1.18	1.86
CPSII	10	0.196|0.201	343|187|13|203|99|14	543|316	3.25	0.1967888	2	0.89	0.66	1.21	1.82	0.84	3.95
PBCS1	7	0.210|0.215	310|179|17|223|108|22	506|353	5.32	0.0698199	2	0.84	0.62	1.13	1.80	0.93	3.47
PLCO	13	0.220|0.238	599|323|53|259|165|24	975|448	1.90	0.386993	2	1.18	0.93	1.50	1.05	0.63	1.73
WHI	8	0.206|0.225	1502|825|83|1054|594|95	2410|1743	10.07	0.0065017	2	1.03	0.90	1.17	1.63	1.20	2.21
STAGE3	4	0.208|0.215	2260|1126|180|981|555|68	3566|1604	5.49	0.0643239	2	1.14	1.00	1.29	0.87	0.65	1.16
NHS2	3	0.206|0.232	730|346|61|201|125|17	1137|343	4.39	0.111261	2	1.31	1.01	1.70	1.01	0.58	1.77
PBCS2	23	0.208|0.210	1111|557|86|448|228|35	1754|711	0.02	0.9877848	2	1.02	0.84	1.23	1.01	0.67	1.52
WHS	3	0.214|0.213	419|223|33|332|202|16	675|550	4.30	0.1162584	2	1.14	0.90	1.45	0.61	0.33	1.13
PBCS 1+2	16	0.208|0.211	1421|735|103|671|336|57	2259|1064	1.16	0.5586672	2	0.97	0.83	1.13	1.17	0.84	1.64

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.426|0.418	3060|4399|1711|1751|2638|885	9170|5274	9.48	0.008732	2	1.05	0.97	1.13	0.90	0.82	1.00
NHS	3	0.424|0.429	405|502|232|253|415|139	1139|807	10.34	0.0056879	2	1.32	1.08	1.62	0.96	0.74	1.25
STAGE1-2	17	0.438|0.425	1803|2653|1117|1181|1857|629	5573|3667	13.97	0.0009264	2	1.07	0.97	1.17	0.86	0.76	0.97
STAGE2	18	0.442|0.423	1398|2151|885|928|1442|490	4434|2860	9.11	0.0104976	2	1.01	0.91	1.12	0.83	0.73	0.96
CPSII	4	0.475|0.416	158|254|131|107|155|54	543|316	6.28	0.0433193	2	0.90	0.66	1.24	0.61	0.41	0.91
PBCS1	6	0.415|0.368	186|220|100|141|164|48	506|353	5.55	0.0622139	2	0.98	0.73	1.32	0.63	0.42	0.95
PLCO	14	0.419|0.393	324|485|166|162|220|66	975|448	1.79	0.4092199	2	0.91	0.71	1.16	0.80	0.56	1.12
WHI	22	0.450|0.444	730|1192|488|518|903|322	2410|1743	2.85	0.2407326	2	1.07	0.93	1.23	0.93	0.78	1.11

STAGE3	21	0.408|0.402	1257|1746|595/570|782|256	3598|1608	0.34	0.8420297	2	0.99	0.87	1.12	0.95	0.80	1.13
NHS2	22	0.418|0.423	394|568|202/119|167|65	1164|351	0.29	0.8648707	2	0.97	0.74	1.27	1.07	0.75	1.51
PBCS2	13	0.400|0.386	625|849|274/266|333|105	1748|704	0.92	0.6300825	2	0.92	0.76	1.12	0.90	0.69	1.18
WHS	13	0.413|0.410	238|329|119/185|282|86	686|553	1.31	0.5203624	2	1.10	0.86	1.42	0.93	0.66	1.30
PBCS 1+2	7	0.403|0.380	811|1069|373/407|496|153	2253|1056	3.23	0.1986139	2	0.92	0.79	1.08	0.82	0.65	1.02

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% (	het OR 95% (	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	16	0.384|0.367	3487|4138|1398/2078|2378|707	9023|5163	9.35	0.0093318	2	0.96	0.90	1.04	0.85	0.76	0.94
NHS	10	0.399|0.362	403|541|177/333|343|115	1121|791	7.44	0.0242844	2	0.77	0.63	0.94	0.79	0.60	1.04
STAGE1-2	8	0.398|0.363	1839|2287|832/1325|1468|438	4958|3231	21.09	0.0000263	2	0.89	0.81	0.98	0.73	0.64	0.84
STAGE2	6	0.398|0.363	1436|1746|655/992|1125|323	3837|2440	18.21	0.0001113	2	0.93	0.84	1.04	0.71	0.61	0.83
CPSII	16	0.387|0.355	199|251|79/131|139|41	529|311	1.75	0.4165864	2	0.84	0.62	1.14	0.79	0.51	1.22
PLCO	20	0.378|0.372	379|431|146/181|186|69	956|436	0.72	0.6989991	2	0.90	0.71	1.16	0.99	0.71	1.39
WHI	1	0.409|0.362	858|1064|430/680|800|213	2352|1693	24.51	0.00004755	2	0.95	0.83	1.09	0.63	0.52	0.76
STAGE3	12	0.368|0.374	1455|1636|504/624|763|219	3595|1606	1.81	0.4047359	2	1.09	0.96	1.24	1.01	0.84	1.22
NHS2	7	0.371|0.399	475|529|171/128|174|56	1175|358	2.51	0.2850903	2	1.22	0.94	1.58	1.22	0.85	1.74
PBCS2	10	0.368|0.360	706|782|248/283|324|88	1736|695	1.22	0.5441755	2	1.03	0.86	1.25	0.89	0.67	1.17
WHS	21	0.362|0.375	274|325|85/213|265|75	684|553	0.50	0.7788482	2	1.05	0.82	1.34	1.14	0.79	1.62
PBCS 1+2	19	0.367|0.366	899|997|310/412|471|138	2206|1021	0.31	0.8578505	2	1.03	0.88	1.21	0.97	0.77	1.23

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% (	het OR 95% (	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	17	0.452|0.433	2783|4512|1894/1706|2563|1004	9189|5273	8.91	0.0116258	2	0.93	0.86	1.00	0.86	0.78	0.95
NHS	15	0.470|0.436	312|585|244/261|388|158	1141|807	5.72	0.0571388	2	0.79	0.64	0.98	0.77	0.60	1.00
STAGE1-2	18	0.456|0.429	1656|2756|1163/1213|1761|692	5575|3666	13.38	0.0012416	2	0.87	0.79	0.96	0.81	0.72	0.92
STAGE2	19	0.452|0.427	1344|2171|919/952|1373|534	4434|2859	8.90	0.0116645	2	0.89	0.80	0.99	0.82	0.72	0.94
CPSII	17	0.471|0.440	152|271|120/101|152|63	543|316	1.64	0.4405252	2	0.84	0.61	1.16	0.79	0.53	1.17
PBCS1	18	0.483|0.457	138|247|121/104|174|74	506|352	1.16	0.5600817	2	0.93	0.68	1.29	0.81	0.55	1.19
PLCO	1	0.449|0.391	298|478|199/167|212|69	975|448	8.51	0.0142283	2	0.79	0.62	1.02	0.62	0.44	0.86
WHI	23	0.443|0.428	756|1175|479/580|835|328	2410|1743	1.88	0.391459	2	0.93	0.81	1.07	0.89	0.75	1.07
STAGE3	18	0.445|0.444	1127|1760|732/493|802|313	3619|1608	0.76	0.6847273	2	1.04	0.91	1.19	0.98	0.83	1.16
NHS2	19	0.441|0.429	379|559|240/114|168|65	1178|347	0.45	0.7979345	2	1.00	0.76	1.31	0.90	0.64	1.27
PBCS2	16	0.457|0.451	518|863|368/211|357|141	1749|709	0.43	0.8060089	2	1.02	0.83	1.24	0.94	0.73	1.21
WHS	16	0.423|0.445	230|338|124/168|277|107	692|552	1.22	0.5434596	2	1.12	0.87	1.45	1.18	0.85	1.64
PBCS 1+2	17	0.463|0.452	656|1106|488/315|531|214	2250|1060	0.97	0.615556	2	1.00	0.84	1.18	0.91	0.74	1.13

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O, AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% (	het OR 95% (	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	18	0.372|0.367	3584|4307|1250/2153|2342|760	9141|5255	8.78	0.0123817	2	0.91	0.84	0.97	1.01	0.91	1.12
NHS	17	0.382|0.374	429|553|159/329|353|125	1141|807	4.27	0.1181391	2	0.83	0.68	1.01	1.03	0.78	1.35
STAGE1-2	9	0.380|0.368	2081|2738|749/1502|1623|538	5568|3663	20.99	0.00002761	2	0.82	0.75	0.90	1.00	0.87	1.13
STAGE2	10	0.380|0.367	1652|2185|590/1173|1270|413	4427|2856	16.67	0.0002394	2	0.82	0.74	0.91	0.99	0.85	1.14
CPSII	20	0.377|0.359	216|242|83/131|143|42	541|316	0.70	0.7037904	2	0.97	0.72	1.31	0.83	0.54	1.28
PBCS1	11	0.375|0.334	193|244|67/160|150|43	504|353	4.27	0.1179577	2	0.74	0.55	0.99	0.77	0.50	1.20
PLCO	11	0.371|0.354	371|484|120/188|200|58	975|446	2.89	0.2356811	2	0.82	0.64	1.04	0.95	0.67	1.37
WHI	5	0.385|0.378	872|1215|320/694|777|270	2407|1741	14.21	0.0008207	2	0.80	0.70	0.92	1.06	0.88	1.28
STAGE3	17	0.360|0.365	1503|1568|502/651|720|222	3573|1593	0.82	0.6639517	2	1.06	0.93	1.20	1.02	0.85	1.23

NHS2	21	0.364|0.373	470|516|158|136|163|48	1144|347	0.44	0.8031004	2	1.09	0.84	1.42	1.05	0.72	1.53
PBCS2	4	0.359|0.382	732|784|238/269|335|102	1754|706	2.75	0.2527387	2	1.16	0.96	1.41	1.17	0.89	1.53
WHS	12	0.356|0.339	301|268|106/246|222|72	675|540	1.36	0.5066929	2	1.01	0.79	1.29	0.83	0.59	1.17
PBCS 1+2	23	0.362|0.366	925|1029|304/429|484|145	2258|1058	0.07	0.9672004	2	1.01	0.87	1.19	1.03	0.82	1.29

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.259|0.282	2233|1539|281/991|791|148	4053|1930	7.44	0.0242264	2	1.16	1.03	1.30	1.19	0.96	1.47
STAGE3	5	0.259|0.277	1977|1345|254/830|650|118	3576|1598	5.09	0.078515	2	1.15	1.02	1.30	1.11	0.88	1.40
NHS2	10	0.255|0.283	637|430|76/181|137|30	1143|348	2.35	0.3095378	2	1.12	0.87	1.44	1.39	0.88	2.19
PBCS2	2	0.259|0.288	969|667|121/350|308|50	1757|708	7.02	0.0298986	2	1.28	1.07	1.53	1.14	0.81	1.63
WHS	18	0.268|0.259	371|248|57/299|205|38	676|542	0.89	0.6416152	2	1.03	0.81	1.30	1.14	0.53	1.28
PBCS 1+2	2	0.259|0.293	1225|861|148/511|449|80	2234|1040	9.31	0.0094913	2	1.25	1.07	1.46	1.30	0.97	1.73

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.258|0.249	5016|3564|583/2989|1934|347	9163|5270	6.85	0.03255	2	0.91	0.85	0.98	1.00	0.87	1.15
NHS	19	0.256|0.247	634|430|77/470|276|61	1141|807	2.62	0.2698838	2	0.87	0.71	1.05	1.07	0.75	1.53
STAGE1-2	14	0.263|0.245	3002|2205|365/2117|1303|246	5572|3666	15.52	0.0004265	2	0.84	0.77	0.92	0.96	0.81	1.13
STAGE2	12	0.265|0.244	2368|1775|288/1647|1027|185	4431|2859	13.22	0.0013496	2	0.83	0.75	0.92	0.92	0.76	1.12
CPSII	2	0.266|0.222	286|224|32/197|98|21	542|316	9.09	0.0106288	2	0.64	0.47	0.86	0.95	0.53	1.70
PBCS1	16	0.247|0.229	284|193|28/212|119|21	505|352	1.74	0.4182379	2	0.83	0.62	1.10	1.00	0.56	1.82
PLCO	15	0.263|0.253	526|385|64/254|161|33	975|448	1.72	0.4230708	2	0.87	0.68	1.10	1.07	0.68	1.67
WHI	15	0.270|0.249	1272|973|164/984|649|110	2409|1743	5.44	0.0659126	2	0.86	0.76	0.98	0.87	0.67	1.12
STAGE3	13	0.250|0.259	2014|1359|218/872|631|100	3591|1603	1.29	0.5257763	2	1.07	0.95	1.21	1.06	0.83	1.36
NHS2	11	0.264|0.241	630|457|79/204|123|23	1166|350	2.06	0.3575145	2	0.83	0.64	1.07	0.90	0.55	1.47
PBCS2	3	0.245|0.268	993|643|105/372|282|47	1741|701	3.21	0.2013079	2	1.17	0.97	1.41	1.19	0.83	1.72
WHS	11	0.239|0.259	391|259|34/296|226|30	684|552	1.55	0.4600568	2	1.15	0.91	1.46	1.17	0.70	1.95
PBCS 1+2	18	0.245|0.256	1277|836|133/584|401|69	2246|1054	0.85	0.6523334	2	1.05	0.90	1.22	1.13	0.83	1.54

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.325|0.335	4170|4041|961/2368|2287|625	9172|5280	6.35	0.0418265	2	1.00	0.93	1.07	1.15	1.02	1.28
NHS	18	0.318|0.328	524|509|108/373|339|95	1141|807	3.16	0.2062052	2	0.94	0.77	1.13	1.24	0.91	1.68
STAGE1-2	22	0.326|0.337	2533|2437|597/1631|1595|436	5567|3662	3.24	0.1983568	2	1.02	0.93	1.11	1.13	0.99	1.30
STAGE2	23	0.328|0.339	2009|1928|489/1258|1256|341	4426|2855	1.98	0.3720877	2	1.04	0.94	1.15	1.11	0.95	1.30
CPSII	22	0.334|0.340	243|231|64/139|138|38	538|315	0.09	0.9571178	2	1.04	0.78	1.40	1.04	0.66	1.63
PBCS1	21	0.319|0.326	229|228|47/161|150|39	504|350	0.96	0.6198844	2	0.94	0.70	1.25	1.18	0.74	1.89
PLCO	7	0.335|0.334	440|417|118/190|215|42	975|447	4.43	0.1091681	2	1.19	0.94	1.51	1.02	0.56	1.22
WHI	19	0.326|0.343	1097|1052|260/768|753|222	2409|1743	3.83	0.1471435	2	1.02	0.90	1.17	1.22	1.00	1.49
STAGE3	10	0.324|0.331	1636|1605|364/734|693|189	3605|1616	3.37	0.1852493	2	0.96	0.85	1.09	1.16	0.95	1.41
NHS2	18	0.320|0.331	538|516|117/162|155|41	1171|358	0.63	0.7290536	2	1.00	0.78	1.28	1.16	0.78	1.73
PBCS2	8	0.330|0.330	789|789|189/326|301|84	1767|711	1.36	0.5075477	2	0.92	0.77	1.11	1.08	0.81	1.43
WHS	7	0.312|0.334	309|300|58/246|237|64	667|547	3.01	0.2225459	2	0.99	0.78	1.26	1.39	0.94	2.05
PBCS 1+2	11	0.328|0.327	1019|1016|236/490|450|123	2271|1063	2.13	0.3451118	2	0.92	0.79	1.08	1.08	0.85	1.38

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.260|0.274	4413|3055|562/2365|1767|340	8030|4472	5.33	0.0695569	2	1.08	1.00	1.17	1.13	0.98	1.30
STAGE1-2	21	0.252|0.275	2473|1688|272/1508|1131|220	4433|2859	10.19	0.0061213	2	1.10	1.00	1.21	1.33	1.10	1.60
STAGE2	17	0.252|0.275	2473|1688|272/1508|1131|220	4433|2859	10.19	0.0061213	2	1.10	1.00	1.21	1.33	1.10	1.60
CPSII	19	0.247|0.266	309|198|35/173|118|25	542|316	0.82	0.663283	2	1.06	0.79	1.43	1.28	0.74	2.20
PBCS1	19	0.246|0.265	293|177|36/198|123|32	506|353	1.12	0.5711424	2	1.03	0.77	1.38	1.32	0.79	2.19
PLCO	4	0.230|0.271	569|364|42/235|182|30	975|447	6.23	0.0444763	2	1.21	0.96	1.53	1.73	1.06	2.83
WHI	21	0.263|0.279	1302|949|159/902|708|133	2410|1743	2.91	0.2330911	2	1.08	0.95	1.23	1.21	0.94	1.54
STAGE3	14	0.271|0.272	1940|1371|290/857|636|120	3601|1613	1.18	0.553999	2	1.05	0.93	1.19	0.94	0.75	1.18
NHS2	8	0.270|0.286	638|417|105/179|142|29	1160|350	2.47	0.290913	2	1.21	0.94	1.56	0.98	0.63	1.53
PBCS2	17	0.273|0.265	926|696|131/381|280|48	1753|709	0.43	0.8073219	2	0.98	0.81	1.17	0.89	0.63	1.27
WHS	23	0.266|0.271	376|258|54/297|214|43	688|554	0.17	0.9198272	2	1.05	0.83	1.33	1.01	0.66	1.55
PBCS 1+2	21	0.267|0.265	1219|869|167/579|403|80	2255|1062	0.11	0.9467146	2	0.98	0.84	1.14	1.01	0.76	1.34

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.372|0.367	3658|4164|1315/2088|2463|694	9137|5245	4.64	0.098089	2	1.04	0.96	1.12	0.92	0.83	1.03
NHS	20	0.371|0.366	452|529|159/323|377|107	1140|807	0.19	0.9091115	2	1.00	0.82	1.21	0.94	0.71	1.25
STAGE1-2	15	0.374|0.363	2234|2499|829/1453|1759|451	5562|3663	15.41	0.0004516	2	1.08	0.99	1.18	0.84	0.73	0.95
STAGE2	7	0.374|0.362	1782|1970|670/1130|1382|344	4422|2856	17.81	0.0001359	2	1.11	1.00	1.22	0.81	0.70	0.94
CPSII	7	0.371|0.339	217|240|79/132|150|31	536|313	4.13	0.126954	2	1.03	0.76	1.38	0.65	0.40	1.03
PBCS1	2	0.387|0.375	195|230|81/125|190|37	506|352	8.15	0.0169893	2	1.29	0.96	1.73	0.71	0.45	1.12
PLCO	6	0.376|0.360	398|416|157/180|213|55	971|448	4.69	0.0959954	2	1.13	0.89	1.44	0.77	0.54	1.10
WHI	17	0.372|0.365	972|1084|353/693|829|221	2409|1743	4.38	0.1118546	2	1.07	0.94	1.23	0.88	0.72	1.07
STAGE3	9	0.369|0.376	1424|1669|486/635|705|243	3579|1583	3.52	0.1722382	2	0.95	0.83	1.08	1.12	0.94	1.34
NHS2	1	0.344|0.402	510|503|148/129|162|60	1161|351	7.48	0.0238118	2	1.27	0.98	1.65	1.60	1.12	2.29
PBCS2	5	0.380|0.381	656|853|236/275|321|108	1745|704	2.59	0.273464	2	0.90	0.74	1.09	1.09	0.84	1.43
WHS	6	0.384|0.352	258|313|102/231|222|75	673|528	3.63	0.1624571	2	0.79	0.62	1.01	0.82	0.58	1.16
PBCS 1+2	22	0.381|0.379	851|1079|317/400|510|145	2247|1055	0.08	0.9590551	2	1.01	0.86	1.18	0.97	0.77	1.22

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.394|0.386	2956|3804|1260/1679|2133|657	8020|4469	2.35	0.3087221	2	0.99	0.91	1.07	0.92	0.82	1.03
STAGE1-2	23	0.397|0.384	1622|2102|710/1078|1366|416	4434|2860	3.05	0.2175458	2	0.98	0.88	1.08	0.88	0.76	1.02
STAGE2	22	0.397|0.384	1622|2102|710/1078|1366|416	4434|2860	3.05	0.2175458	2	0.98	0.88	1.08	0.88	0.76	1.02
CPSII	3	0.394|0.413	201|256|86/96|179|41	543|316	7.21	0.0271541	2	1.46	1.07	1.99	1.00	0.64	1.56
PBCS1	15	0.409|0.375	176|246|84/140|161|52	506|353	2.20	0.3327234	2	0.82	0.61	1.11	0.78	0.52	1.17
PLCO	17	0.393|0.394	355|474|146/170|203|75	975|448	1.52	0.4683453	2	0.89	0.70	1.14	1.07	0.77	1.50
WHI	20	0.397|0.378	890|1126|394/672|823|248	2410|1743	3.70	0.1569152	2	0.97	0.85	1.11	0.83	0.69	1.01
STAGE3	23	0.390|0.388	1336|1703|550/601|769|241	3589|1611	0.12	0.9426322	2	1.00	0.88	1.14	0.97	0.81	1.17
NHS2	9	0.384|0.369	446|528|178/134|171|43	1152|348	2.37	0.3061949	2	1.08	0.83	1.40	0.80	0.55	1.18
PBCS2	7	0.399|0.398	621|858|268/263|330|118	1747|711	1.56	0.4579435	2	0.91	0.75	1.10	1.04	0.80	1.35
WHS	19	0.380|0.388	269|317|104/204|268|80	690|552	0.84	0.6556871	2	1.11	0.87	1.42	1.01	0.72	1.43
PBCS 1+2	9	0.402|0.390	795|1103|352/403|489|170	2250|1062	2.75	0.252409	2	0.87	0.75	1.03	0.95	0.77	1.19

unadj_trend

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.395|0.439	3394|4265|1474|1655|2556|1017	9133|5228	52.42	4.48E-13	1	1.20	1.14	1.25	1.43	1.30	1.57
NHS	1	0.388|0.448	425|540|170|238|411|155	1135|804	14.48	0.0001413	1	1.29	1.13	1.47	1.66	1.28	2.16
STAGE1-2	1	0.401|0.441	2022|2614|919|1124|1831|695	5555|3650	29.55	5.456E-08	1	1.18	1.11	1.25	1.39	1.24	1.57
STAGE2	2	0.404|0.439	1597|2074|749|886|1420|540	4420|2846	17.38	0.00003066	1	1.15	1.08	1.23	1.33	1.16	1.52
CPSII	9	0.378|0.405	220|235|88|108|159|48	543|315	1.12	0.2888977	1	1.11	0.91	1.36	1.24	0.83	1.84
PBCS1	16	0.387|0.407	195|230|81|124|171|58	506|353	0.62	0.429446	1	1.08	0.89	1.31	1.17	0.79	1.72
PLCO	17	0.420|0.427	324|476|169|140|232|75	969|447	0.14	0.7123007	1	1.03	0.88	1.21	1.06	0.77	1.47
WHI	1	0.407|0.455	858|1133|411|514|858|359	2402|1731	18.87	0.00001401	1	1.21	1.11	1.33	1.48	1.24	1.76
STAGE3	1	0.385|0.434	1376|1653|555|531|725|322	3584|1578	20.48	0.000006028	1	1.21	1.12	1.32	1.47	1.24	1.74
NHS2	3	0.400|0.440	433|545|197|114|152|73	1175|339	3.32	0.0684864	1	1.17	0.99	1.39	1.37	0.98	1.92
PBCS2	1	0.362|0.410	719|778|240|246|324|121	1737|691	9.19	0.0024372	1	1.21	1.07	1.38	1.48	1.15	1.90
WHS	1	0.421|0.461	224|330|118|171|249|128	672|548	3.72	0.0539066	1	1.17	1.00	1.37	1.36	0.99	1.87
PBCS 1+2	1	0.368|0.409	910|1006|321|370|495|179	2237|1044	9.46	0.0021052	1	1.18	1.06	1.31	1.39	1.13	1.71

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.220|0.243	5595|3136|452|3042|1901|333	9183|5276	20.40	0.000006292	1	1.14	1.08	1.20	1.30	1.16	1.45
NHS	5	0.215|0.253	693|401|44|451|303|53	1138|807	8.06	0.0045204	1	1.25	1.07	1.45	1.55	1.15	2.11
STAGE1-2	2	0.216|0.249	3402|1923|241|2095|1316|253	5566|3664	26.42	2.741E-07	1	1.20	1.12	1.29	1.44	1.25	1.65
STAGE2	1	0.216|0.247	2709|1522|197|1644|1013|200	4428|2857	18.62	0.000016	1	1.19	1.10	1.28	1.41	1.21	1.65
CPSII	13	0.225|0.241	325|192|26|186|108|22	543|316	0.56	0.4559924	1	1.09	0.87	1.37	1.19	0.75	1.89
PBCS1	1	0.217|0.272	308|173|23|186|139|26	504|351	6.83	0.0089707	1	1.35	1.08	1.69	1.82	1.16	2.85
PLCO	15	0.223|0.232	577|359|37|261|166|21	973|448	0.35	5.56E-01	1	1.06	0.87	1.29	1.12	0.76	1.66
WHI	3	0.212|0.247	1499|798|111|1011|600|131	2408|1742	14.08	0.0001755	1	1.21	1.10	1.34	1.48	1.20	1.81
STAGE3	19	0.226|0.231	2193|1215|211|948|587|79	3619|1614	0.27	0.605873	1	1.03	0.93	1.13	1.05	0.87	1.28
NHS2	20	0.227|0.232	712|397|69|205|131|16	1178|352	0.06	0.8066848	1	1.03	0.84	1.25	1.05	0.71	1.56
PBCS2	12	0.223|0.233	1070|586|98|417|254|38	1754|709	0.54	0.4615955	1	1.06	0.91	1.22	1.11	0.83	1.49
WHS	19	0.233|0.228	411|232|44|326|202|25	687|553	0.09	0.768264	1	0.97	0.81	1.17	0.95	0.65	1.37
PBCS 1+2	3	0.221|0.246	1378|757|121|602|391|65	2256|1058	4.92	0.0265729	1	1.15	1.02	1.29	1.31	1.03	1.67

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.237|0.216	5374|3222|563|3232|1803|234	9159|5269	17.81	0.00002436	1	0.88	0.84	0.94	0.78	0.70	0.88
NHS	7	0.244|0.209	660|405|76|499|278|30	1141|807	6.36	0.0116624	1	0.82	0.71	0.96	0.68	0.50	0.92
STAGE1-2	7	0.238|0.211	3263|1971|341|2274|1237|156	5575|3667	17.78	0.00002477	1	0.86	0.80	0.92	0.74	0.64	0.85
STAGE2	7	0.236|0.212	2603|1566|265|1775|959|126	4434|2860	11.89	0.0005631	1	0.87	0.80	0.94	0.76	0.64	0.89
CPSII	17	0.235|0.223	319|193|31|193|105|18	543|316	0.30	0.5826615	1	0.94	0.74	1.18	0.88	0.55	1.40
PBCS1	5	0.242|0.203	291|185|30|219|125|9	506|353	3.84	0.0499562	1	0.79	0.62	1.00	0.62	0.39	1.00
PLCO	14	0.238|0.225	576|334|65|262|170|16	975|448	0.53	0.467044	1	0.93	0.77	1.12	0.87	0.60	1.27
WHI	6	0.235|0.208	1417|854|139|1101|559|83	2410|1743	8.26	0.0040637	1	0.86	0.77	0.95	0.74	0.60	0.91
STAGE3	6	0.237|0.225	2112|1254|222|959|567|78	3588|1604	1.54	0.2147218	1	0.94	0.85	1.04	0.88	0.73	1.07
NHS2	22	0.232|0.234	698|374|81|205|120|21	1153|346	0.01	0.9301442	1	1.01	0.83	1.22	1.02	0.69	1.50
PBCS2	9	0.236|0.224	1016|637|94|422|248|34	1747|704	0.78	0.3783388	1	0.94	0.81	1.09	0.88	0.65	1.18
WHS	5	0.245|0.221	398|243|47|332|199|23	688|554	1.92	0.1657267	1	0.88	0.73	1.06	0.77	0.53	1.12
PBCS 1+2	5	0.237|0.217	1306|819|124|640|372|43	2249|1055	3.34	0.0677121	1	0.89	0.79	1.01	0.79	0.62	1.02

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	4	0.352|0.376	3857|4174|1135/2089|2392|784	9166|5265	17.26	0.00003258	1	1.11	1.06	1.17	1.23	1.12	1.36
NHS	14	0.356|0.375	459|551|130/325|359|123	1140|807	1.51	0.2189036	1	1.09	0.95	1.24	1.28	0.91	1.54
STAGE1-2	8	0.348|0.376	2351|2568|655/1462|1649|555	5574|3666	15.40	0.00008692	1	1.13	1.06	1.20	1.28	1.13	1.44
STAGE2	6	0.346|0.377	1892|2017|525/1137|1290|432	4434|2859	14.21	0.0001635	1	1.14	1.07	1.22	1.30	1.14	1.49
CPSII	23	0.350|0.351	220|266|57/137|136|43	543|316	0.00	0.9539863	1	1.01	0.82	1.24	1.01	0.67	1.54
PBCS1	15	0.345|0.364	216|231|59/147|154|51	506|352	0.63	0.4272264	1	1.08	0.89	1.32	1.18	0.79	1.75
PLCO	4	0.333|0.376	437|427|111/170|219|59	975|448	5.10	0.0239932	1	1.21	1.03	1.43	1.46	1.05	2.04
WHI	5	0.350|0.384	1019|1093|298/683|781|279	2410|1743	9.66	0.0018816	1	1.15	1.05	1.26	1.33	1.11	1.59
STAGE3	4	0.357|0.375	1507|1610|480/628|743|229	3597|1600	3.06	0.0800038	1	1.08	0.99	1.18	1.16	0.98	1.38
NHS2	24	0.367|0.366	482|523|170/147|152|53	1175|352	0.00	0.9715338	1	1.00	0.84	1.18	0.99	0.71	1.40
PBCS2	6	0.349|0.365	744|779|218/286|322|96	1741|704	1.12	0.289266	1	1.07	0.94	1.22	1.15	0.89	1.48
WHS	2	0.361|0.394	281|308|92/195|269|80	681|544	2.83	0.0925126	1	1.15	0.98	1.36	1.33	0.95	1.85
PBCS 1+2	9	0.348|0.365	959|1006|277/432|476|147	2242|1055	1.79	0.1808264	1	1.08	0.97	1.20	1.16	0.93	1.43

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	5	0.094|0.109	7550|1579|79/4185|1048|54	9208|5287	16.98	0.00003773	1	1.18	1.09	1.28	1.39	1.19	1.63
NHS	8	0.085|0.108	951|185|5/642|155|10	1141|807	5.90	0.0151729	1	1.31	1.05	1.62	1.71	1.11	2.64
STAGE1-2	3	0.090|0.111	4627|896|52/2898|724|43	5575|3665	21.53	0.000003487	1	1.26	1.14	1.39	1.59	1.30	1.93
STAGE2	3	0.091|0.111	3676|711|47/2256|569|33	4434|2858	15.90	0.00006671	1	1.25	1.12	1.39	1.56	1.25	1.94
CPSII	15	0.099|0.111	444|90|9/250|62|4	543|316	0.53	0.4684868	1	1.12	0.82	1.53	1.26	0.68	2.34
PBCS1	6	0.094|0.123	417|83|6/270|79|4	506|353	3.77	0.0522662	1	1.36	1.00	1.85	1.84	0.99	3.41
PLCO	2	0.077|0.106	832|135|8/357|87|4	975|448	6.28	0.0122199	1	1.41	1.08	1.84	1.98	1.16	3.40
WHI	8	0.094|0.110	1983|403|24/1379|341|21	2410|1741	5.99	0.0144177	1	1.20	1.04	1.38	1.43	1.07	1.90
STAGE3	10	0.102|0.107	2923|684|27/1289|324|11	3634|1624	0.63	0.4285819	1	1.06	0.92	1.21	1.12	0.85	1.47
NHS2	21	0.103|0.100	947|218|12/290|59|6	1177|355	0.05	0.8300104	1	0.97	0.74	1.28	0.94	0.54	1.64
PBCS2	18	0.104|0.107	1412|338|15/565|143|5	1765|713	0.10	0.7479	1	1.03	0.84	1.27	1.07	0.71	1.60
WHS	4	0.092|0.110	564|128|0/434|122|0	692|556	2.28	0.1306736	1	1.24	0.94	1.64	1.53	0.88	2.67
PBCS 1+2	8	0.102|0.113	1829|420|21/833|222|9	2270|1064	1.91	0.1669422	1	1.13	0.95	1.33	1.27	0.91	1.77

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% f	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	6	0.034|0.026	8545|608|10/4997|257|9	9163|5263	14.46	0.0001432	1	0.76	0.66	0.87	0.57	0.43	0.77
NHS	13	0.034|0.026	1063|78|0/765|42|0	1141|807	2.18	0.1400941	1	0.75	0.51	1.10	0.56	0.26	1.21
STAGE1-2	9	0.034|0.025	5197|376|2/3487|178|2	5575|3667	13.10	0.0002953	1	0.72	0.60	0.86	0.51	0.36	0.74
STAGE2	9	0.034|0.024	4134|298|2/2722|136|2	4434|2860	11.00	0.0009117	1	0.71	0.58	0.87	0.50	0.33	0.76
CPSII	5	0.030|0.019	510|33|0/305|10|1	543|316	2.00	0.1575233	1	0.62	0.32	1.21	0.39	0.10	1.46
PBCS1	10	0.033|0.024	473|33|0/336|17|0	506|353	1.10	0.2934315	1	0.73	0.40	1.32	0.53	0.16	1.75
PLCO	6	0.036|0.026	906|68|1/425|23|0	975|448	2.06	0.151667	1	0.70	0.44	1.14	0.50	0.19	1.30
WHI	9	0.034|0.025	2245|164|1/1656|86|1	2410|1743	5.86	0.0154858	1	0.72	0.55	0.94	0.52	0.31	0.89
STAGE3	5	0.035|0.029	3348|232|8/1511|79|7	3588|1597	1.95	0.1628323	1	0.85	0.67	1.07	0.71	0.45	1.15
NHS2	8	0.040|0.030	1074|82|5/334|15|3	1161|352	1.30	0.2542228	1	0.77	0.48	1.21	0.59	0.23	1.47
PBCS2	11	0.032|0.028	1648|112|1/669|40|0	1761|709	0.59	0.4423651	1	0.87	0.60	1.25	0.75	0.36	1.57
WHS	22	0.032|0.030	626|38|2/508|24|4	666|536	0.05	0.8238842	1	0.95	0.61	1.48	0.91	0.38	2.18
PBCS 1+2	11	0.032|0.027	2121|145|1/1004|57|0	2267|1061	1.54	0.2150271	1	0.82	0.60	1.12	0.67	0.36	1.26

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.137|0.121	6878|2122|195/4075|1120|78	9195|5273	14.13	0.000171	1	0.87	0.81	0.94	0.76	0.66	0.88
NHS	4	0.153|0.121	818|296|27/624|169|13	1141|806	8.18	0.0042425	1	0.76	0.63	0.92	0.58	0.40	0.84
STAGE1-2	6	0.143|0.121	4102|1351|122/2831|783|52	5575|3666	18.41	0.0000178	1	0.83	0.76	0.90	0.68	0.57	0.81
STAGE2	8	0.140|0.121	3284|1055|95/2207|614|39	4434|2860	11.31	0.0007718	1	0.84	0.76	0.93	0.71	0.58	0.87
CPSII	3	0.140|0.114	398|138|7/250|60|6	543|316	2.43	0.1191072	1	0.79	0.58	1.06	0.62	0.34	1.13
PBCS1	2	0.153|0.110	364|129|13/278|72|3	506|353	6.45	0.0110986	1	0.69	0.51	0.92	0.47	0.26	0.84
PLCO	8	0.132|0.116	738|216|21/348|96|4	975|448	1.44	0.2301799	1	0.86	0.68	1.10	0.74	0.46	1.21
WHI	13	0.141|0.126	1784|572|54/1331|386|26	2410|1743	4.10	0.0429778	1	0.88	0.77	1.00	0.77	0.59	0.99
STAGE3	12	0.127|0.122	2778|774|73/1244|340|26	3625|1610	0.53	0.4684188	1	0.96	0.84	1.08	0.91	0.71	1.17
NHS2	13	0.127|0.117	907|259|21/272|72|5	1187|349	0.42	0.5153392	1	0.92	0.71	1.19	0.84	0.50	1.41
PBCS2	16	0.124|0.119	1344|368|32/554|145|12	1744|711	0.23	0.6319464	1	0.96	0.79	1.15	0.91	0.63	1.33
WHS	15	0.135|0.128	527|147|20/418|123|9	694|550	0.22	0.6403204	1	0.95	0.75	1.19	0.90	0.57	1.42
PBCS 1+2	7	0.130|0.115	1706|494|45/832|214|15	2245|1061	2.93	0.0871716	1	0.87	0.74	1.02	0.76	0.55	1.04

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.408|0.430	3249|4351|1557/1736|2512|998	9157|5246	13.10	0.000295	1	1.09	1.04	1.15	1.19	1.09	1.32
NHS	6	0.392|0.437	429|513|185/240|421|139	1127|800	7.89	0.0049803	1	1.21	1.06	1.37	1.45	1.12	1.89
STAGE1-2	13	0.403|0.428	1986|2660|913/1209|1769|681	5559|3659	10.70	0.00107	1	1.10	1.04	1.17	1.22	1.08	1.37
STAGE2	14	0.406|0.425	1557|2147|728/969|1348|542	4432|2859	5.03	0.0249129	1	1.08	1.01	1.15	1.17	1.02	1.33
CPSII	4	0.427|0.389	178|265|99/121|144|51	542|316	2.32	0.1274399	1	0.86	0.70	1.05	0.73	0.49	1.09
PBCS1	3	0.410|0.463	174|249|83/97|185|71	506|353	4.92	0.0264926	1	1.25	1.03	1.52	1.56	1.05	2.32
PLCO	22	0.408|0.407	339|475|160/163|205|80	974|448	0.00	0.9701984	1	1.00	0.85	1.17	0.99	0.72	1.37
WHI	7	0.400|0.429	866|1158|386/588|814|340	2410|1742	6.60	0.0101942	1	1.12	1.03	1.22	1.26	1.06	1.50
STAGE3	3	0.414|0.434	1263|1694|645/528|747|319	3602|1594	3.58	0.0584136	1	1.08	1.00	1.18	1.17	0.99	1.38
NHS2	2	0.399|0.447	436|540|199/111|161|74	1175|346	4.74	0.029509	1	1.20	1.02	1.42	1.45	1.04	2.03
PBCS2	7	0.424|0.440	593|833|328/226|346|140	1754|712	0.93	0.3357342	1	1.06	0.94	1.20	1.13	0.88	1.44
WHS	20	0.414|0.420	234|321|118/191|240|105	673|536	0.08	0.7727819	1	1.02	0.87	1.20	1.05	0.76	1.44
PBCS 1+2	4	0.421|0.447	767|1079|410/322|527|209	2256|1058	3.85	0.0498101	1	1.11	1.00	1.23	1.23	1.00	1.51

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.225|0.208	5470|3225|447/3307|1695|246	9142|5248	11.14	0.0008452	1	0.91	0.85	0.96	0.82	0.73	0.92
NHS	10	0.220|0.189	694|392|55/529|251|27	1141|807	5.56	0.0183416	1	0.83	0.70	0.97	0.68	0.49	0.94
STAGE1-2	12	0.220|0.200	3355|1980|239/2361|1141|162	5574|3664	11.30	0.0007753	1	0.88	0.82	0.95	0.78	0.67	0.90
STAGE2	13	0.221|0.203	2661|1588|184/1832|890|135	4433|2857	6.48	0.0108806	1	0.90	0.83	0.98	0.81	0.69	0.95
CPSII	21	0.217|0.213	323|203|16/201|94|20	542|315	0.04	0.8404707	1	0.98	0.77	1.24	0.95	0.59	1.55
PBCS1	21	0.244|0.249	284|197|25/204|121|27	506|352	0.05	0.8311342	1	1.02	0.82	1.28	1.05	0.67	1.64
PLCO	5	0.229|0.195	577|350|48/288|145|15	975|448	4.10	0.0429811	1	0.82	0.67	0.99	0.66	0.45	0.99
WHI	10	0.213|0.194	1477|838|95/1139|530|73	2410|1742	4.64	0.0312227	1	0.89	0.80	0.99	0.79	0.63	0.98
STAGE3	15	0.233|0.227	2116|1247|208/947|555|83	3571|1585	0.35	0.5514942	1	0.97	0.88	1.07	0.94	0.77	1.15
NHS2	14	0.205|0.215	734|358|56/210|117|15	1148|342	0.33	0.568591	1	1.06	0.86	1.30	1.13	0.75	1.70
PBCS2	15	0.252|0.245	980|644|117/402|254|45	1741|701	0.24	0.623588	1	0.97	0.84	1.11	0.93	0.70	1.24
WHS	8	0.231|0.212	402|245|35/335|184|23	682|542	1.24	0.2646866	1	0.90	0.74	1.09	0.80	0.54	1.18
PBCS 1+2	18	0.250|0.247	1263|839|142/605|374|73	2244|1052	0.07	0.7896258	1	0.98	0.87	1.11	0.97	0.76	1.23

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% u	hom OR	hom OR 95% l	hom OR 95% u	hom OR 95% CI_u
STAGE1-3	10	0.226|0.243	5514|3211|475/3003|1970|297	9200|5270	11.05	0.0008848	1	1.10	1.04	1.16	1.21	1.08	1.36	
NHS	3	0.220|0.262	689|402|50/433|325|49	1141|807	9.55	0.0020029	1	1.27	1.09	1.48	1.61	1.19	2.18	
STAGE1-2	14	0.227|0.247	3314|1996|265/2072|1377|218	5575|3667	10.68	0.0010839	1	1.12	1.05	1.20	1.26	1.10	1.45	
STAGE2	17	0.228|0.243	2625|1594|215/1639|1052|169	4434|2860	4.28	0.038502	1	1.09	1.00	1.18	1.18	1.01	1.38	
CPSII	18	0.215|0.222	326|200|17/193|106|17	543|316	0.09	0.7642126	1	1.04	0.81	1.32	1.08	0.66	1.75	
PBCS1	20	0.226|0.231	299|185|22/213|117|23	506|353	0.05	0.82352	1	1.03	0.82	1.29	1.05	0.67	1.66	
PLCO	10	0.236|0.253	578|334|63/247|175|26	975|448	1.00	0.3178801	1	1.10	0.91	1.31	1.20	0.84	1.73	
WHI	14	0.228|0.247	1422|875|113/986|654|103	2410|1743	3.83	0.050453	1	1.11	1.00	1.23	1.23	1.00	1.51	
STAGE3	7	0.226|0.235	2200|1215|210/931|595|80	3625|1606	1.13	0.2881527	1	1.05	0.96	1.16	1.11	0.91	1.35	
NHS2	9	0.225|0.244	724|388|73/196|131|19	1185|346	1.04	0.3081224	1	1.11	0.91	1.34	1.22	0.83	1.81	
PBCS2	22	0.226|0.225	1063|591|102/427|240|39	1756|706	0.01	0.9314094	1	0.99	0.86	1.15	0.99	0.74	1.32	
WHS	10	0.224|0.242	413|236|35/308|224|22	684|554	1.19	0.275486	1	1.11	0.92	1.35	1.24	0.84	1.82	
PBCS 1+2	23	0.226|0.226	1362|776|124/640|355|61	2262|1056	0.00	0.9645731	1	1.00	0.88	1.13	0.99	0.78	1.27	

Locus rs17570439 Alleles T|C Chr 1p34.2 Location Neighborhood 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% u	hom OR	hom OR 95% l	hom OR 95% u	hom OR 95% CI_u
STAGE1-3	11	0.208|0.224	5732|3020|388/3177|1825|269	9140|5271	10.83	0.0009997	1	1.10	1.04	1.17	1.22	1.08	1.37	
NHS	2	0.204|0.245	718|381|42/457|304|46	1141|807	9.70	0.0018402	1	1.28	1.09	1.49	1.63	1.20	2.23	
STAGE1-2	11	0.207|0.228	3472|1895|208/2196|1270|201	5575|3667	11.38	0.0007439	1	1.13	1.05	1.22	1.28	1.11	1.48	
STAGE2	16	0.208|0.223	2754|1514|166/1739|966|155	4434|2860	4.65	0.0311143	1	1.09	1.01	1.19	1.20	1.02	1.41	
CPSII	20	0.196|0.201	343|187|13/203|99|14	543|316	0.06	0.8043235	1	1.03	0.80	1.33	1.07	0.64	1.76	
PBCS1	19	0.210|0.215	310|179|17/223|108|22	506|353	0.06	0.8101222	1	1.03	0.81	1.30	1.06	0.66	1.69	
PLCO	9	0.220|0.238	599|323|53/259|165|24	975|448	1.08	0.2978363	1	1.10	0.92	1.33	1.22	0.84	1.77	
WHI	12	0.206|0.225	1502|825|83/1054|594|95	2410|1743	4.56	0.0327345	1	1.12	1.01	1.25	1.26	1.02	1.56	
STAGE3	9	0.208|0.215	2260|1126|180/981|555|68	3566|1604	0.65	0.4215234	1	1.04	0.94	1.15	1.09	0.89	1.33	
NHS2	5	0.206|0.232	730|346|61/201|125|17	1137|343	2.03	0.1538024	1	1.16	0.95	1.41	1.34	0.90	1.99	
PBCS2	20	0.208|0.210	1111|557|86/448|228|35	1754|711	0.02	0.8925952	1	1.01	0.87	1.17	1.02	0.76	1.38	
WHS	24	0.214|0.213	419|223|33/332|202|16	675|550	0.01	0.9344107	1	0.99	0.81	1.21	0.98	0.66	1.46	
PBCS 1+2	17	0.208|0.211	1421|735|103/671|336|57	2259|1064	0.09	0.768573	1	1.02	0.90	1.15	1.04	0.81	1.33	

Locus rs2067980 Alleles A|G Chr 5p12 Location Neighborhood 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% u	hom OR	hom OR 95% l	hom OR 95% u	hom OR 95% CI_u
STAGE1-3	12	0.161|0.176	6467|2446|251/3610|1460|197	9164|5267	10.81	0.001007	1	1.11	1.04	1.18	1.24	1.09	1.40	
NHS	9	0.151|0.179	814|310|17/542|240|24	1141|806	5.63	0.0176218	1	1.24	1.04	1.47	1.53	1.08	2.17	
STAGE1-2	4	0.151|0.176	4007|1454|114/2510|1021|135	5575|3666	20.69	0.000005405	1	1.20	1.11	1.30	1.44	1.23	1.69	
STAGE2	5	0.151|0.175	3193|1144|97/1968|781|111	4434|2860	15.14	0.00009962	1	1.19	1.09	1.30	1.42	1.19	1.70	
CPSII	16	0.159|0.171	383|147|13/221|82|13	543|316	0.38	0.5364481	1	1.09	0.84	1.41	1.18	0.70	1.98	
PBCS1	4	0.191|0.231	335|149|22/208|127|18	506|353	4.00	0.045607	1	1.27	1.00	1.60	1.61	1.01	2.56	
PLCO	12	0.144|0.156	714|241|20/322|112|14	975|448	0.71	0.4003006	1	1.10	0.88	1.37	1.21	0.78	1.87	
WHI	4	0.143|0.170	1761|607|42/1217|460|66	2410|1743	10.67	0.001089	1	1.22	1.08	1.37	1.49	1.17	1.88	
STAGE3	24	0.176|0.176	2460|993|137/1100|440|62	3590|1602	0.00	0.9584289	1	1.00	0.90	1.11	0.99	0.80	1.23	
NHS2	17	0.170|0.162	810|306|44/249|82|15	1160|346	0.23	0.6352016	1	0.95	0.76	1.18	0.90	0.58	1.40	
PBCS2	19	0.190|0.188	1158|519|73/467|211|27	1750|705	0.03	0.869858	1	0.99	0.84	1.15	0.97	0.71	1.33	
WHS	9	0.153|0.170	492|168|20/384|147|20	680|551	1.21	0.2718373	1	1.13	0.91	1.39	1.27	0.83	1.93	
PBCS 1+2	13	0.190|0.202	1493|667|95/675|337|45	2255|1057	1.28	0.2578876	1	1.08	0.95	1.22	1.16	0.90	1.50	

Locus rs1274466 Alleles T|C Chr 10p11.21 Location Neighborhood 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	13	0.452|0.433	2783|4512|1894|1706|2563|1004	9189|5273	8.89	0.0028605	1	0.93	0.89	0.98	0.86	0.78	0.95
NHS	12	0.470|0.436	312|585|244|261|388|158	1141|807	4.44	0.0351079	1	0.87	0.77	0.99	0.76	0.59	0.98
STAGE1-2	10	0.456|0.429	1656|2756|1163|1213|1761|692	5575|3666	12.77	0.0003521	1	0.90	0.85	0.95	0.81	0.72	0.91
STAGE2	11	0.452|0.427	1344|2171|919|952|1373|534	4434|2859	8.80	0.003008	1	0.90	0.85	0.97	0.82	0.72	0.93
CPSII	8	0.471|0.440	152|271|120|101|152|63	543|316	1.50	0.2207503	1	0.88	0.73	1.08	0.78	0.53	1.16
PBCS1	11	0.483|0.457	138|247|121|104|174|74	506|352	1.09	0.2958245	1	0.90	0.75	1.09	0.82	0.56	1.20
PLCO	1	0.449|0.391	298|478|199|167|212|69	975|448	8.50	0.0035451	1	0.79	0.67	0.93	0.62	0.45	0.86
WHI	18	0.443|0.428	756|1175|479|580|835|328	2410|1743	1.78	0.1823911	1	0.94	0.86	1.03	0.89	0.75	1.06
STAGE3	22	0.445|0.444	1127|1760|732|493|802|313	3619|1608	0.02	0.8948696	1	0.99	0.92	1.08	0.99	0.84	1.17
NHS2	16	0.441|0.429	379|559|240|114|168|65	1178|347	0.28	0.5939024	1	0.96	0.81	1.13	0.91	0.65	1.28
PBCS2	17	0.457|0.451	518|863|368|211|357|141	1749|709	0.17	0.6790912	1	0.97	0.86	1.10	0.95	0.74	1.22
WHS	11	0.423|0.445	230|338|124|168|277|107	692|552	1.15	0.2842459	1	1.09	0.93	1.28	1.19	0.86	1.64
PBCS 1+2	16	0.463|0.452	656|1106|488|315|531|214	2250|1060	0.61	0.4333068	1	0.96	0.87	1.06	0.92	0.75	1.13

Locus rs37936 Alleles Chr Location Neighborhood
A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	14	0.384|0.367	3487|4138|1398|2078|2378|707	9023|5163	7.90	0.0049425	1	0.93	0.89	0.98	0.87	0.79	0.96
NHS	11	0.399|0.362	403|541|177|333|343|115	1121|791	5.25	0.0219571	1	0.86	0.75	0.98	0.74	0.57	0.96
STAGE1-2	5	0.398|0.363	1839|2287|832|1325|1468|438	4958|3231	20.45	0.000006122	1	0.86	0.81	0.92	0.75	0.66	0.85
STAGE2	4	0.398|0.363	1436|1746|655|992|1125|323	3837|2440	15.21	0.00009616	1	0.86	0.80	0.93	0.75	0.65	0.87
CPSII	7	0.387|0.355	199|251|79|131|139|41	529|311	1.62	0.2032153	1	0.88	0.71	1.07	0.77	0.51	1.15
PLCO	18	0.378|0.372	379|431|146|181|186|69	956|436	0.10	0.7463246	1	0.97	0.83	1.14	0.95	0.69	1.31
WHI	2	0.409|0.362	858|1064|430|680|800|213	2352|1693	17.69	0.00002595	1	0.82	0.75	0.90	0.68	0.57	0.81
STAGE3	14	0.368|0.374	1455|1636|504|624|763|219	3595|1606	0.36	0.548545	1	1.03	0.94	1.12	1.05	0.89	1.25
NHS2	6	0.371|0.399	475|529|171|128|174|56	1175|358	1.89	0.1689713	1	1.13	0.95	1.33	1.27	0.90	1.78
PBCS2	14	0.368|0.360	706|782|248|283|324|88	1736|695	0.29	0.587365	1	0.97	0.85	1.10	0.93	0.72	1.20
WHS	13	0.362|0.375	274|325|85|213|265|75	684|553	0.48	0.4868453	1	1.06	0.90	1.25	1.13	0.81	1.57
PBCS 1+2	22	0.367|0.366	899|997|310|412|471|138	2206|1021	0.00	0.9581997	1	1.00	0.90	1.11	0.99	0.80	1.23

Locus rs10941679 Alleles Chr Location Neighborhood
A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	15	0.259|0.282	2233|1539|281|991|791|148	4053|1930	6.70	0.009654	1	1.12	1.03	1.22	1.25	1.06	1.49
STAGE3	2	0.259|0.277	1977|1345|254|830|650|118	3576|1598	3.70	0.054514	1	1.10	1.00	1.20	1.20	1.00	1.45
NHS2	4	0.255|0.283	637|430|76|181|137|30	1143|348	2.21	0.1375113	1	1.15	0.96	1.39	1.33	0.91	1.94
PBCS2	2	0.259|0.288	969|667|121|350|308|50	1757|708	4.52	0.033519	1	1.16	1.01	1.33	1.35	1.02	1.78
WHS	16	0.268|0.259	371|248|57|299|205|38	676|542	0.22	0.6422004	1	0.96	0.80	1.15	0.92	0.64	1.31
PBCS 1+2	2	0.259|0.293	1225|861|148|511|449|80	2234|1040	8.38	0.0037903	1	1.19	1.06	1.34	1.41	1.12	1.78

Locus rs724244 Alleles Chr Location Neighborhood
C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% l	het OR 95% t	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	16	0.260|0.274	4413|3055|562|2365|1767|340	8030|4472	5.23	0.0222241	1	1.07	1.01	1.13	1.15	1.02	1.29
STAGE1-2	15	0.252|0.275	2473|1688|272|1508|1131|220	4433|2859	9.56	0.0019843	1	1.13	1.04	1.21	1.27	1.09	1.48
STAGE2	10	0.252|0.275	2473|1688|272|1508|1131|220	4433|2859	9.56	0.0019843	1	1.13	1.04	1.21	1.27	1.09	1.48
CPSII	10	0.247|0.266	309|198|35|173|118|25	542|316	0.71	0.4001278	1	1.10	0.88	1.37	1.21	0.78	1.88
PBCS1	14	0.246|0.265	293|177|36|198|123|32	506|353	0.72	0.3954966	1	1.10	0.89	1.36	1.20	0.79	1.84
PLCO	3	0.230|0.271	569|364|42|235|182|30	975|447	5.86	0.0155227	1	1.26	1.04	1.52	1.58	1.09	2.30
WHI	16	0.263|0.279	1302|949|159|902|708|133	2410|1743	2.85	0.0916561	1	1.09	0.99	1.20	1.18	0.97	1.44

STAGE3	23	0.271|0.272	1940|1371|290|857|636|120	3601|1613	0.00	0.9459473	1	1.00	0.91	1.10	1.01	0.84	1.21
NHS2	11	0.270|0.286	638|417|105|179|142|29	1160|350	0.60	0.4369798	1	1.07	0.90	1.29	1.15	0.80	1.66
PBCS2	13	0.273|0.265	926|696|131|381|280|48	1753|709	0.34	0.562617	1	0.96	0.83	1.10	1.10	0.70	1.22
WHS	21	0.266|0.271	376|258|54|297|214|43	688|554	0.07	0.7928345	1	1.02	0.86	1.22	1.05	0.74	1.49
PBCS 1+2	21	0.267|0.265	1219|869|167|579|403|80	2255|1062	0.02	0.8865477	1	0.99	0.88	1.11	0.98	0.78	1.24

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.325|0.335	4170|4041|961|2368|2287|625	9172|5280	2.94	0.086372	1	1.05	0.99	1.10	1.09	0.99	1.21
NHS	16	0.318|0.328	524|509|108|373|339|95	1141|807	0.44	0.5088003	1	1.05	0.91	1.20	1.10	0.83	1.44
STAGE1-2	20	0.326|0.337	2533|2437|597|1631|1595|436	5567|3662	2.27	0.1322215	1	1.05	0.99	1.12	1.10	0.97	1.25
STAGE2	21	0.328|0.339	2009|1928|489|1258|1256|341	4426|2855	1.90	0.1676558	1	1.05	0.98	1.13	1.10	0.96	1.27
CPSII	19	0.334|0.340	243|231|64|139|138|38	538|315	0.06	0.8017223	1	1.03	0.84	1.26	1.05	0.70	1.59
PBCS1	18	0.319|0.326	229|228|47|161|150|39	504|350	0.08	0.7836048	1	1.03	0.84	1.27	1.06	0.70	1.61
PLCO	23	0.335|0.334	440|417|118|190|215|42	975|447	0.00	0.9824426	1	1.00	0.84	1.18	1.00	0.71	1.39
WHI	17	0.326|0.343	1097|1052|260|768|753|222	2409|1743	2.60	0.1066846	1	1.08	0.98	1.18	1.16	0.97	1.40
STAGE3	11	0.324|0.331	1636|1605|364|734|693|189	3605|1616	0.62	0.4317195	1	1.04	0.95	1.13	1.07	0.90	1.28
NHS2	15	0.320|0.331	538|516|117|162|155|41	1171|358	0.29	0.588996	1	1.05	0.88	1.26	1.10	0.77	1.58
PBCS2	24	0.330|0.330	789|789|189|326|301|84	1767|711	0.00	0.9782579	1	1.00	0.88	1.14	1.00	0.77	1.29
WHS	7	0.312|0.334	309|300|58|246|237|64	667|547	1.33	0.2494284	1	1.11	0.93	1.31	1.22	0.87	1.73
PBCS 1+2	24	0.328|0.327	1019|1016|236|490|450|123	2271|1063	0.00	0.9848994	1	1.00	0.90	1.11	1.00	0.80	1.24

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.258|0.249	5016|3564|583|2989|1934|347	9163|5270	2.72	0.0993546	1	0.95	0.90	1.01	0.91	0.82	1.02
NHS	17	0.256|0.247	634|430|77|470|276|61	1141|807	0.42	0.5171174	1	0.95	0.83	1.10	0.91	0.68	1.21
STAGE1-2	16	0.263|0.245	3002|2205|365|2117|1303|246	5572|3666	7.97	0.0047633	1	0.91	0.85	0.97	0.82	0.72	0.94
STAGE2	12	0.265|0.244	2368|1775|288|1647|1027|185	4431|2859	8.06	0.0045356	1	0.89	0.83	0.97	0.80	0.69	0.93
CPSII	2	0.266|0.222	286|224|32|197|98|21	542|316	4.17	0.0411658	1	0.79	0.62	0.99	0.62	0.39	0.98
PBCS1	13	0.247|0.229	284|193|28|212|119|21	505|352	0.73	0.3942524	1	0.91	0.72	1.14	0.82	0.52	1.29
PLCO	16	0.263|0.253	526|385|64|254|161|33	975|448	0.30	0.5831814	1	0.95	0.79	1.14	0.90	0.63	1.30
WHI	11	0.270|0.249	1272|973|164|984|649|110	2409|1743	4.56	0.0326495	1	0.90	0.81	0.99	0.80	0.66	0.98
STAGE3	8	0.250|0.259	2014|1359|218|872|631|100	3591|1603	1.02	0.3117723	1	1.05	0.95	1.16	1.10	0.91	1.34
NHS2	7	0.264|0.241	630|457|79|204|123|23	1166|350	1.39	0.2379543	1	0.89	0.73	1.08	0.79	0.53	1.17
PBCS2	3	0.245|0.268	993|643|105|372|282|47	1741|701	2.88	0.0898639	1	1.13	0.98	1.30	1.28	0.96	1.70
WHS	6	0.239|0.259	391|259|34|296|226|30	684|552	1.39	0.2391446	1	1.12	0.93	1.35	1.25	0.86	1.83
PBCS 1+2	14	0.245|0.256	1277|836|133|584|401|69	2246|1054	0.83	0.362801	1	1.06	0.94	1.19	1.12	0.88	1.42

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.426|0.418	3060|4399|1711|1751|2638|885	9170|5274	2.00	0.1573997	1	0.97	0.92	1.01	0.93	0.85	1.03
NHS	20	0.424|0.429	405|502|232|253|415|139	1139|807	0.11	0.7457448	1	1.02	0.90	1.16	1.04	0.81	1.34
STAGE1-2	17	0.438|0.425	1803|2653|1117|1181|1857|629	5573|3667	3.37	0.0663544	1	0.95	0.89	1.00	0.89	0.79	1.01
STAGE2	15	0.442|0.423	1398|2151|885|928|1442|490	4434|2860	4.97	0.0257585	1	0.93	0.87	0.99	0.86	0.75	0.98
CPSII	1	0.475|0.416	158|254|131|107|155|54	543|316	5.40	0.0201541	1	0.79	0.65	0.97	0.63	0.43	0.93
PBCS1	7	0.415|0.368	186|220|100|141|164|48	506|353	3.57	0.0589304	1	0.83	0.69	1.01	0.69	0.47	1.01
PLCO	7	0.419|0.393	324|485|166|162|220|66	975|448	1.77	0.1831671	1	0.89	0.76	1.05	0.80	0.58	1.11
WHI	22	0.450|0.444	730|1192|488|518|903|322	2410|1743	0.30	0.5823692	1	0.98	0.89	1.07	0.95	0.80	1.14

STAGE3	16	0.408|0.402	1257|1746|595/570|782|256	3598|1608	0.30	0.5869208	1	0.98	0.90	1.06	0.95	0.80	1.13
NHS2	19	0.418|0.423	394|568|202/119|167|65	1164|351	0.07	0.7941989	1	1.02	0.86	1.21	1.05	0.74	1.47
PBCS2	8	0.400|0.386	625|849|274/266|333|105	1748|704	0.82	0.3642666	1	0.94	0.83	1.07	0.89	0.69	1.15
WHS	23	0.413|0.410	238|329|119/185|282|86	686|553	0.02	0.8879658	1	0.99	0.84	1.16	0.98	0.71	1.35
PBCS 1+2	6	0.403|0.380	811|1069|373/407|496|153	2253|1056	3.16	0.0752466	1	0.91	0.82	1.01	0.83	0.67	1.02

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% (	het OR 95% (	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	20	0.394|0.386	2956|3804|1260/1679|2133|657	8020|4469	1.78	0.1818942	1	0.96	0.91	1.02	0.93	0.84	1.03
STAGE1-2	19	0.397|0.384	1622|2102|710/1078|1366|416	4434|2860	2.42	0.1199157	1	0.95	0.89	1.01	0.90	0.78	1.03
STAGE2	19	0.397|0.384	1622|2102|710/1078|1366|416	4434|2860	2.42	0.1199157	1	0.95	0.89	1.01	0.90	0.78	1.03
CPSII	11	0.394|0.413	201|256|86/96|179|41	543|316	0.63	0.4288491	1	1.09	0.88	1.33	1.18	0.78	1.78
PBCS1	9	0.409|0.375	176|246|84/140|161|52	506|353	1.96	0.161204	1	0.87	0.71	1.06	0.76	0.51	1.12
PLCO	21	0.393|0.394	355|474|146/170|203|75	975|448	0.00	0.9534424	1	1.00	0.85	1.18	1.01	0.73	1.40
WHI	15	0.397|0.378	890|1126|394/672|823|248	2410|1743	2.95	0.0861251	1	0.93	0.85	1.01	0.86	0.72	1.02
STAGE3	21	0.390|0.388	1336|1703|550/601|769|241	3589|1611	0.05	0.829296	1	0.99	0.91	1.08	0.98	0.83	1.16
NHS2	12	0.384|0.369	446|528|178/134|171|43	1152|348	0.47	0.4944631	1	0.94	0.79	1.12	0.89	0.62	1.26
PBCS2	23	0.399|0.398	621|858|268/263|330|118	1747|711	0.00	0.9512034	1	1.00	0.88	1.13	0.99	0.77	1.28
WHS	18	0.380|0.388	269|317|104/204|268|80	690|552	0.14	0.7126443	1	1.03	0.88	1.21	1.06	0.77	1.47
PBCS 1+2	15	0.402|0.390	795|1103|352/403|489|170	2250|1062	0.77	0.3817	1	0.95	0.86	1.06	0.91	0.74	1.12

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% (	het OR 95% (	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	21	0.156|0.161	6502|2482|193/3746|1354|170	9177|5270	1.00	0.3171798	1	1.03	0.97	1.10	1.07	0.94	1.22
NHS	15	0.159|0.168	807|306|28/572|199|36	1141|807	0.57	0.4501256	1	1.07	0.90	1.26	1.14	0.81	1.59
STAGE1-2	22	0.156|0.161	3940|1525|106/2613|923|129	5571|3665	0.90	0.3419467	1	1.04	0.96	1.13	1.08	0.92	1.27
STAGE2	22	0.155|0.159	3133|1219|78/2041|724|93	4430|2858	0.43	0.5138043	1	1.03	0.94	1.13	1.06	0.88	1.28
CPSII	22	0.173|0.171	368|161|13/220|84|12	542|316	0.01	0.9314004	1	0.99	0.76	1.28	0.98	0.58	1.65
PBCS1	12	0.138|0.156	373|123|8/259|76|17	504|352	1.06	0.3043568	1	1.15	0.88	1.49	1.32	0.78	2.23
PLCO	19	0.156|0.160	688|270|17/318|117|13	975|448	0.07	0.7983435	1	1.03	0.83	1.28	1.06	0.68	1.64
WHI	23	0.155|0.158	1704|665|40/1244|447|51	2409|1742	0.14	0.7121903	1	1.02	0.91	1.15	1.05	0.82	1.33
STAGE3	20	0.157|0.160	2562|957|86/1133|431|41	3605|1605	0.17	0.6760375	1	1.02	0.91	1.15	1.05	0.84	1.32
NHS2	10	0.167|0.153	811|332|30/254|88|10	1173|352	0.74	0.3886111	1	0.90	0.72	1.14	0.82	0.51	1.30
PBCS2	10	0.148|0.158	1266|440|38/496|184|18	1744|698	0.73	0.3944307	1	1.08	0.91	1.28	1.16	0.82	1.64
WHS	17	0.161|0.167	485|185|18/383|159|13	688|555	0.17	0.6827652	1	1.05	0.84	1.30	1.09	0.71	1.68
PBCS 1+2	12	0.146|0.157	1639|563|47/755|260|35	2249|1050	1.35	0.2444646	1	1.09	0.94	1.25	1.18	0.89	1.57

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O, AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% (	het OR 95% (	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	22	0.372|0.367	3584|4307|1250/2153|2342|760	9141|5255	0.67	0.4120097	1	0.98	0.93	1.03	0.96	0.87	1.06
NHS	18	0.382|0.374	429|553|159/329|353|125	1141|807	0.26	0.610613	1	0.97	0.85	1.10	0.93	0.72	1.21
STAGE1-2	18	0.380|0.368	2081|2738|749/1502|1623|538	5568|3663	2.72	0.0990394	1	0.95	0.89	1.01	0.90	0.80	1.02
STAGE2	18	0.380|0.367	1652|2185|590/1173|1270|413	4427|2856	2.58	0.1084526	1	0.94	0.88	1.01	0.89	0.78	1.03
CPSII	14	0.377|0.359	216|242|83/131|143|42	541|316	0.53	0.4671362	1	0.93	0.76	1.13	0.86	0.58	1.29
PBCS1	8	0.375|0.334	193|244|67/160|150|43	504|353	2.99	0.0835466	1	0.84	0.68	1.02	0.70	0.47	1.05
PLCO	11	0.371|0.354	371|484|120/188|200|58	975|446	0.79	0.3729319	1	0.93	0.78	1.10	0.86	0.61	1.20
WHI	19	0.385|0.378	872|1215|320/694|777|270	2407|1741	0.44	0.5075644	1	0.97	0.89	1.06	0.94	0.78	1.13
STAGE3	18	0.360|0.365	1503|1568|502/651|720|222	3573|1593	0.27	0.6032496	1	1.02	0.94	1.11	1.05	0.88	1.24

NHS2	18	0.364|0.373	470|516|158|136|163|48	1144|347	0.21	0.6498862	1	1.04	0.87	1.24	1.08	0.77	1.54
PBCS2	4	0.359|0.382	732|784|238/269|335|102	1754|706	2.16	0.1411999	1	1.10	0.97	1.25	1.21	0.94	1.56
WHS	12	0.356|0.339	301|268|106/246|222|72	675|540	0.66	0.4162928	1	0.94	0.80	1.10	0.88	0.64	1.21
PBCS 1+2	19	0.362|0.366	925|1029|304/429|484|145	2258|1058	0.07	0.7962052	1	1.01	0.91	1.13	1.03	0.83	1.27

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.372|0.367	3658|4164|1315/2088|2463|694	9137|5245	0.62	0.4320973	1	0.98	0.93	1.03	0.96	0.87	1.06
NHS	19	0.371|0.366	452|529|159/323|377|107	1140|807	0.11	0.7348316	1	0.98	0.86	1.12	0.96	0.73	1.24
STAGE1-2	21	0.374|0.363	2234|2499|829/1453|1759|451	5562|3663	2.06	0.151333	1	0.96	0.90	1.02	0.91	0.81	1.03
STAGE2	20	0.374|0.362	1782|1970|670/1130|1382|344	4422|2856	2.07	0.149776	1	0.95	0.89	1.02	0.90	0.79	1.04
CPSII	6	0.371|0.339	217|240|79/132|150|31	536|313	1.82	0.1770951	1	0.87	0.71	1.07	0.75	0.50	1.14
PBCS1	17	0.387|0.375	195|230|81/125|190|37	506|352	0.28	0.597758	1	0.95	0.77	1.16	0.90	0.60	1.34
PLCO	13	0.376|0.360	398|416|157/180|213|55	971|448	0.59	0.4408654	1	0.94	0.80	1.10	0.88	0.64	1.22
WHI	20	0.372|0.365	972|1084|353/693|829|221	2409|1743	0.41	0.5208446	1	0.97	0.89	1.06	0.94	0.79	1.13
STAGE3	13	0.369|0.376	1424|1669|486/635|705|243	3579|1583	0.48	0.4866185	1	1.03	0.95	1.12	1.06	0.90	1.26
NHS2	1	0.344|0.402	510|503|148/129|162|60	1161|351	7.47	0.006271	1	1.27	1.07	1.50	1.61	1.14	2.26
PBCS2	21	0.380|0.381	656|853|236/275|321|108	1745|704	0.01	0.9090366	1	1.01	0.89	1.15	1.02	0.79	1.31
WHS	3	0.384|0.352	258|313|102/231|222|75	673|528	2.46	0.1166591	1	0.88	0.74	1.03	0.77	0.55	1.07
PBCS 1+2	20	0.381|0.379	851|1079|317/400|510|145	2247|1055	0.03	0.872927	1	0.99	0.89	1.10	0.98	0.79	1.22

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.220|0.219	5556|3162|430/3251|1707|300	9148|5258	0.01	0.9297998	1	1.00	0.94	1.06	0.99	0.89	1.12
NHS	21	0.218|0.222	691|402|48/502|251|54	1141|807	0.09	0.7579753	1	1.02	0.88	1.19	1.05	0.77	1.42
STAGE1-2	23	0.218|0.216	3371|1979|225/2293|1165|209	5575|3667	0.10	0.7463871	1	0.99	0.92	1.06	0.98	0.85	1.13
STAGE2	23	0.218|0.214	2680|1577|177/1791|914|155	4434|2860	0.29	0.5885029	1	0.98	0.90	1.06	0.96	0.81	1.12
CPSII	12	0.215|0.199	328|197|18/205|96|15	543|316	0.58	0.4481508	1	0.91	0.71	1.16	0.83	0.50	1.35
PBCS1	22	0.242|0.245	282|203|21/203|127|23	506|353	0.02	0.8861085	1	1.02	0.81	1.28	1.03	0.65	1.63
PLCO	20	0.214|0.218	603|326|46/277|147|24	975|448	0.04	0.844788	1	1.02	0.84	1.23	1.04	0.71	1.52
WHI	21	0.215|0.209	1467|851|92/1106|544|93	2410|1743	0.34	0.55779	1	0.97	0.87	1.08	0.94	0.76	1.16
STAGE3	17	0.223|0.228	2185|1184|205/958|544|91	3574|1593	0.29	0.59081	1	1.03	0.93	1.13	1.06	0.87	1.28
NHS2	23	0.211|0.211	723|368|59/214|112|16	1150|342	0.00	0.9656662	1	1.00	0.81	1.22	0.99	0.66	1.50
PBCS2	5	0.234|0.254	1042|597|112/398|260|50	1751|708	2.07	0.1499284	1	1.11	0.96	1.27	1.23	0.93	1.62
WHS	14	0.213|0.204	420|219|34/346|172|25	673|543	0.27	0.6008312	1	0.95	0.78	1.15	0.90	0.61	1.33
PBCS 1+2	10	0.236|0.251	1324|799|133/601|385|73	2256|1059	1.66	0.1976959	1	1.08	0.96	1.22	1.17	0.92	1.48

unadj_rec

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.395|0.439	3394|4265|1474/1655|2556|1017	9133|5228	25.46	4.507E-07	1	1.25	1.15	1.37
NHS	3	0.388|0.448	425|540|170/238|411|155	1135|804	6.24	0.0124974	1	1.36	1.07	1.72
STAGE1-2	11	0.401|0.441	2022|2614|919/1124|1831|695	5555|3650	9.50	0.0020531	1	1.19	1.06	1.32
STAGE2	14	0.404|0.439	1597|2074|749/886|1420|540	4420|2846	4.88	0.0271591	1	1.15	1.02	1.30
CPSII	20	0.378|0.405	220|235|88/108|159|48	543|315	0.14	0.708187	1	0.93	0.63	1.36
PBCS1	20	0.387|0.407	195|230|81/124|171|58	506|353	0.03	0.8685477	1	1.03	0.71	1.49
PLCO	19	0.420|0.427	324|476|169/140|232|75	969|447	0.09	0.7591133	1	0.95	0.71	1.29
WHI	6	0.407|0.455	858|1133|411/514|858|359	2402|1731	8.74	0.0031161	1	1.27	1.08	1.48

STAGE3	1	0.385|0.434	1376|1653|555/531|725|322	3584|1578	18.81	0.00001447	1	1.40	1.20	1.63
NHS2	2	0.400|0.440	433|545|197/114|152|73	1175|339	4.08	0.0433489	1	1.36	1.01	1.84
PBCS2	1	0.362|0.410	719|778|240/246|324|121	1737|691	5.33	0.0209719	1	1.32	1.04	1.68
WHS	1	0.421|0.461	224|330|118/171|249|128	672|548	6.30	0.0120489	1	1.43	1.08	1.89
PBCS 1+2	2	0.368|0.409	910|1006|321/370|495|179	2237|1044	4.31	0.0379322	1	1.24	1.01	1.51

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	2	0.237|0.216	5374|3222|563/3232|1803|234	9159|5269	18.65	0.0000157	1	0.71	0.61	0.83
NHS	1	0.244|0.209	660|405|76/499|278|30	1141|807	7.96	0.0047859	1	0.54	0.35	0.83
STAGE1-2	7	0.238|0.211	3263|1971|341/2274|1237|156	5575|3667	15.08	0.0001031	1	0.68	0.56	0.83
STAGE2	9	0.236|0.212	2603|1566|265/1775|959|126	4434|2860	8.46	0.0036356	1	0.73	0.58	0.90
CPSII	22	0.235|0.223	319|193|31/193|105|18	543|316	0.00	0.9937659	1	1.00	0.55	1.81
PBCS1	3	0.242|0.203	291|185|30/219|125|9	506|353	5.48	0.0192481	1	0.42	0.19	0.89
PLCO	1	0.238|0.225	576|334|65/262|170|16	975|448	5.48	1.93E-02	1	0.52	0.30	0.91
WHI	17	0.235|0.208	1417|854|139/1101|559|83	2410|1743	2.02	0.1550338	1	0.82	0.62	1.08
STAGE3	2	0.237|0.225	2112|1254|222/959|567|78	3588|1604	3.57	0.0587783	1	0.78	0.59	1.01
NHS2	11	0.232|0.234	698|374|81/205|120|21	1153|346	0.38	0.5357981	1	0.86	0.52	1.40
PBCS2	13	0.236|0.224	1016|637|94/422|248|34	1747|704	0.31	0.5789664	1	0.89	0.60	1.33
WHS	2	0.245|0.221	398|243|47/332|199|23	688|554	4.14	0.0417895	1	0.59	0.35	0.99
PBCS 1+2	3	0.237|0.217	1306|819|124/640|372|43	2249|1055	3.09	0.0786204	1	0.73	0.51	1.04

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	3	0.352|0.376	3857|4174|1135/2089|2392|784	9166|5265	18.25	0.00001942	1	1.24	1.12	1.37
NHS	4	0.356|0.375	459|551|130/325|359|123	1140|807	6.16	0.0130914	1	1.40	1.07	1.82
STAGE1-2	4	0.348|0.376	2351|2568|655/1462|1649|555	5574|3666	22.31	0.000002323	1	1.34	1.19	1.51
STAGE2	5	0.346|0.377	1892|2017|525/1137|1290|432	4434|2859	16.30	0.000054	1	1.33	1.16	1.52
CPSII	7	0.350|0.351	220|266|57/137|136|43	543|316	1.88	0.1704813	1	1.34	0.88	2.05
PBCS1	12	0.345|0.364	216|231|59/147|154|51	506|352	1.49	0.2228395	1	1.28	0.86	1.92
PLCO	11	0.333|0.376	437|427|111/170|219|59	975|448	0.93	0.3349217	1	1.18	0.84	1.65
WHI	4	0.350|0.384	1019|1093|298/683|781|279	2410|1743	11.21	0.0008123	1	1.35	1.13	1.61
STAGE3	11	0.357|0.375	1507|1610|480/628|743|229	3597|1600	0.88	0.3479666	1	1.08	0.92	1.29
NHS2	22	0.367|0.366	482|523|170/147|152|53	1175|352	0.08	0.7838001	1	1.05	0.75	1.46
PBCS2	6	0.349|0.365	744|779|218/286|322|96	1741|704	0.56	0.4556299	1	1.10	0.85	1.43
WHS	16	0.361|0.394	281|308|92/195|269|80	681|544	0.36	0.5492745	1	1.10	0.80	1.53
PBCS 1+2	5	0.348|0.365	959|1006|277/432|476|147	2242|1055	1.60	0.2065641	1	1.15	0.93	1.42

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	4	0.156|0.161	6502|2482|193/3746|1354|170	9177|5270	17.23	0.00003317	1	1.55	1.26	1.91
NHS	5	0.159|0.168	807|306|28/572|199|36	1141|807	5.99	0.0143708	1	1.86	1.12	3.07
STAGE1-2	2	0.156|0.161	3940|1525|106/2613|923|129	5571|3665	23.31	0.000001377	1	1.88	1.45	2.44
STAGE2	3	0.155|0.159	3133|1219|78/2041|724|93	4430|2858	16.91	0.00003925	1	1.88	1.38	2.55
CPSII	9	0.173|0.171	368|161|13/220|84|12	542|316	1.38	0.2399331	1	1.61	0.72	3.56
PBCS1	1	0.138|0.156	373|123|8/259|76|17	504|352	7.68	0.0055707	1	3.15	1.34	7.37
PLCO	7	0.156|0.160	688|270|17/318|117|13	975|448	2.00	0.1578017	1	1.68	0.81	3.50
WHI	8	0.155|0.158	1704|665|40/1244|447|51	2409|1742	7.57	0.0059299	1	1.79	1.18	2.71

STAGE3	17	0.157|0.160	2562|957|86|1133|431|41	3605|1605	0.13	0.7150545	1	1.07	0.74	1.56
NHS2	21	0.167|0.153	811|332|30|254|88|10	1173|352	0.09	0.7704796	1	1.11	0.54	2.30
PBCS2	11	0.148|0.158	1266|440|38/496|184|18	1744|698	0.36	0.5508571	1	1.19	0.67	2.10
WHS	21	0.161|0.167	485|185|18/383|159|13	688|555	0.09	0.7581667	1	0.89	0.43	1.84
PBCS 1+2	1	0.146|0.157	1639|563|47/755|260|35	2249|1050	4.57	0.0326001	1	1.62	1.04	2.52

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	5	0.220|0.243	5595|3136|452/3042|1901|333	9183|5276	12.60	0.0003858	1	1.30	1.12	1.51
NHS	2	0.215|0.253	693|401|44/451|303|53	1138|807	7.27	0.007011	1	1.75	1.16	2.63
STAGE1-2	1	0.216|0.249	3402|1923|241/2095|1316|253	5566|3664	28.92	7.524E-08	1	1.64	1.37	1.97
STAGE2	1	0.216|0.247	2709|1522|197/1644|1013|200	4428|2857	21.94	0.000002815	1	1.62	1.32	1.98
CPSII	8	0.225|0.241	325|192|26/186|108|22	543|316	1.79	0.1810222	1	1.49	0.83	2.67
PBCS1	7	0.217|0.272	308|173|23/186|139|26	504|351	3.10	0.0784145	1	1.67	0.94	2.98
PLCO	13	0.223|0.232	577|359|37/261|166|21	973|448	0.61	0.433492	1	1.24	0.72	2.15
WHI	3	0.212|0.247	1499|798|111/1011|600|131	2408|1742	15.59	0.00007858	1	1.68	1.30	2.18
STAGE3	6	0.226|0.231	2193|1215|211/948|587|79	3619|1614	1.87	0.1718419	1	0.83	0.64	1.08
NHS2	8	0.227|0.232	712|397|69/205|131|16	1178|352	0.89	0.3457414	1	0.77	0.44	1.34
PBCS2	21	0.223|0.233	1070|586|98/417|254|38	1754|709	0.05	0.8228516	1	0.96	0.65	1.41
WHS	6	0.233|0.228	411|232|44/326|202|25	687|553	2.07	0.1503034	1	0.69	0.42	1.15
PBCS 1+2	13	0.221|0.246	1378|757|121/602|391|65	2256|1058	0.83	0.3629784	1	1.16	0.85	1.58

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	6	0.161|0.176	6467|2446|251/3610|1460|197	9164|5267	11.15	0.0008413	1	1.38	1.14	1.67
NHS	7	0.151|0.179	814|310|17/542|240|24	1141|806	5.07	0.0243221	1	2.03	1.08	3.80
STAGE1-2	3	0.151|0.176	4007|1454|114/2510|1021|135	5575|3666	22.62	0.000001972	1	1.83	1.42	2.36
STAGE2	2	0.151|0.175	3193|1144|97/1968|781|111	4434|2860	18.00	0.00002211	1	1.81	1.37	2.38
CPSII	6	0.159|0.171	383|147|13/221|82|13	543|316	2.01	0.155965	1	1.75	0.80	3.82
PBCS1	17	0.191|0.231	335|149|22/208|127|18	506|353	0.26	0.6071267	1	1.18	0.62	2.24
PLCO	9	0.144|0.156	714|241|20/322|112|14	975|448	1.52	0.2180204	1	1.54	0.77	3.08
WHI	2	0.143|0.170	1761|607|42/1217|460|66	2410|1743	16.68	0.00004422	1	2.22	1.50	3.28
STAGE3	23	0.176|0.176	2460|993|137/1100|440|62	3590|1602	0.01	0.9254086	1	1.01	0.75	1.38
NHS2	15	0.170|0.162	810|306|44/249|82|15	1160|346	0.21	0.6482546	1	1.15	0.63	2.09
PBCS2	16	0.190|0.188	1158|519|73/467|211|27	1750|705	0.15	0.698424	1	0.91	0.58	1.44
WHS	14	0.153|0.170	492|168|20/384|147|20	680|551	0.46	0.4980657	1	1.24	0.66	2.33
PBCS 1+2	23	0.190|0.202	1493|667|95/675|337|45	2255|1057	0.00	0.9527181	1	1.01	0.70	1.45

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	7	0.408|0.430	3249|4351|1557/1736|2512|998	9157|5246	9.33	0.0022519	1	1.15	1.05	1.25
NHS	19	0.392|0.437	429|513|185/240|421|139	1127|800	0.31	0.5788349	1	1.07	0.84	1.36
STAGE1-2	12	0.403|0.428	1986|2660|913/1209|1769|681	5559|3659	7.38	0.006577	1	1.16	1.04	1.30
STAGE2	11	0.406|0.425	1557|2147|728/969|1348|542	4432|2859	7.74	0.0053901	1	1.19	1.05	1.35
CPSII	14	0.427|0.389	178|265|99/121|144|51	542|316	0.63	0.4289422	1	0.86	0.59	1.25
PBCS1	11	0.410|0.463	174|249|83/97|185|71	506|353	1.95	0.1630916	1	1.28	0.90	1.82
PLCO	14	0.408|0.407	339|475|160/163|205|80	974|448	0.45	0.5036179	1	1.11	0.82	1.49
WHI	7	0.400|0.429	866|1158|386/588|814|340	2410|1742	8.59	0.0033787	1	1.27	1.08	1.49

STAGE3	3	0.414|0.434	1263|1694|645|528|747|319	3602|1594	3.24	0.0717365	1	1.15	0.99	1.33
NHS2	3	0.399|0.447	436|540|199|111|161|74	1175|346	3.60	0.0579235	1	1.33	0.99	1.80
PBCS2	14	0.424|0.440	593|833|328|226|346|140	1754|712	0.31	0.5805729	1	1.06	0.85	1.33
WHS	11	0.414|0.420	234|321|118|191|240|105	673|536	0.84	0.3598161	1	1.15	0.86	1.53
PBCS 1+2	9	0.421|0.447	767|1079|410|322|527|209	2256|1058	1.18	0.2764535	1	1.11	0.92	1.33

Locus Alleles Chr Location Neighborhood
rs379936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	8	0.384|0.367	3487|4138|1398|2078|2378|707	9023|5163	8.42	0.0037087	1	0.87	0.78	0.95
NHS	17	0.399|0.362	403|541|177|333|343|115	1121|791	0.56	0.4539279	1	0.91	0.70	1.17
STAGE1-2	6	0.398|0.363	1839|2287|832|1325|1468|438	4958|3231	15.52	0.00008143	1	0.78	0.69	0.88
STAGE2	4	0.398|0.363	1436|1746|655|992|1125|323	3837|2440	16.66	0.00004473	1	0.74	0.64	0.86
CPSII	17	0.387|0.355	199|251|79|131|139|41	529|311	0.49	0.4838577	1	0.87	0.58	1.30
PLCO	20	0.378|0.372	379|431|146|181|186|69	956|436	0.07	0.7909014	1	1.04	0.76	1.42
WHI	1	0.409|0.362	858|1064|430|680|800|213	2352|1693	23.93	9.978E-07	1	0.64	0.54	0.77
STAGE3	16	0.368|0.374	1455|1636|504|624|763|219	3595|1606	0.14	0.7121599	1	0.97	0.82	1.15
NHS2	12	0.371|0.399	475|529|171|128|174|56	1175|358	0.26	0.611439	1	1.09	0.78	1.51
PBCS2	3	0.368|0.360	706|782|248|283|324|88	1736|695	1.10	0.2945485	1	0.87	0.67	1.13
WHS	17	0.362|0.375	274|325|85|213|265|75	684|553	0.35	0.5540625	1	1.11	0.79	1.54
PBCS 1+2	16	0.367|0.366	899|997|310|412|471|138	2206|1021	0.17	0.681906	1	0.96	0.77	1.19

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	9	0.426|0.418	3060|4399|1711|1751|2638|885	9170|5274	8.01	0.0046465	1	0.88	0.80	0.96
NHS	10	0.424|0.429	405|502|232|253|415|139	1139|807	3.03	0.0819018	1	0.81	0.64	1.03
STAGE1-2	10	0.438|0.425	1803|2653|1117|1181|1857|629	5573|3667	12.05	0.0005168	1	0.83	0.74	0.92
STAGE2	8	0.442|0.423	1398|2151|885|928|1442|490	4434|2860	9.08	0.0025842	1	0.83	0.73	0.94
CPSII	1	0.475|0.416	158|254|131|107|155|54	543|316	5.85	0.0155507	1	0.65	0.46	0.92
PBCS1	2	0.415|0.368	186|220|100|141|164|48	506|353	5.54	0.018565	1	0.64	0.44	0.93
PLCO	10	0.419|0.393	324|485|166|162|220|66	975|448	1.18	0.2766909	1	0.84	0.62	1.15
WHI	16	0.450|0.444	730|1192|488|518|903|322	2410|1743	2.03	0.1542261	1	0.89	0.76	1.04
STAGE3	15	0.408|0.402	1257|1746|595|570|782|256	3598|1608	0.31	0.5783226	1	0.96	0.81	1.12
NHS2	13	0.418|0.423	394|568|202|119|167|65	1164|351	0.25	0.6157211	1	1.08	0.79	1.47
PBCS2	15	0.400|0.386	625|849|274|266|333|105	1748|704	0.22	0.637522	1	0.94	0.74	1.20
WHS	12	0.413|0.410	238|329|119|185|282|86	686|553	0.71	0.3978631	1	0.88	0.65	1.19
PBCS 1+2	4	0.403|0.380	811|1069|373|407|496|153	2253|1056	2.30	0.1295486	1	0.85	0.70	1.05

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	10	0.137|0.121	6878|2122|195|4075|1120|78	9195|5273	7.45	0.0063476	1	0.69	0.53	0.90
NHS	14	0.153|0.121	818|296|27|624|169|13	1141|806	1.33	0.2483563	1	0.68	0.35	1.32
STAGE1-2	13	0.143|0.121	4102|1351|122|2831|783|52	5575|3666	7.10	0.0077256	1	0.64	0.46	0.89
STAGE2	13	0.140|0.121	3284|1055|95|2207|614|39	4434|2860	5.85	0.0155871	1	0.63	0.43	0.92
CPSII	16	0.140|0.114	398|138|7|250|60|6	543|316	0.50	0.4803668	1	1.48	0.49	4.45
PBCS1	6	0.153|0.110	364|129|13|278|72|3	506|353	3.36	0.0666912	1	0.33	0.09	1.15
PLCO	5	0.132|0.116	738|216|21|348|96|4	975|448	2.83	0.0926398	1	0.41	0.14	1.20
WHI	15	0.141|0.126	1784|572|54|1331|386|26	2410|1743	3.00	0.0830891	1	0.66	0.41	1.06
STAGE3	10	0.127|0.122	2778|774|73|1244|340|26	3625|1610	0.96	0.3281797	1	0.80	0.51	1.25

NHS2	17	0.127|0.117	907|259|21|272|72|5	1187|349	0.18	0.668363	1	0.81	0.30	2.16
PBCS2	20	0.124|0.119	1344|368|32/554|145|12	1744|711	0.06	0.8032196	1	0.92	0.47	1.79
WHS	5	0.135|0.128	527|147|20/418|123|9	694|550	2.09	0.1482212	1	0.56	0.25	1.24
PBCS 1+2	6	0.130|0.115	1706|494|45/832|214|15	2245|1061	1.41	0.2349268	1	0.70	0.39	1.26

Locus rs17740709 Alleles A|G Chr 12q21.31 Location Neighborhood 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	11	0.220|0.219	5556|3162|430/3251|1707|300	9148|5258	7.01	0.008097	1	1.23	1.05	1.43
NHS	6	0.218|0.222	691|402|48/502|251|54	1141|807	5.88	0.0153071	1	1.63	1.09	2.44
STAGE1-2	8	0.218|0.216	3371|1979|225/2293|1165|209	5575|3667	13.68	0.0002169	1	1.44	1.18	1.74
STAGE2	10	0.218|0.214	2680|1577|177/1791|914|155	4434|2860	8.16	0.0042896	1	1.38	1.11	1.72
CPSII	11	0.215|0.199	328|197|18/205|96|15	543|316	1.11	0.29236	1	1.45	0.72	2.93
PBCS1	9	0.242|0.245	282|203|21/203|127|23	506|353	2.39	0.1218072	1	1.61	0.88	2.96
PLCO	16	0.214|0.218	603|326|46/277|147|24	975|448	0.27	0.604584	1	1.14	0.69	1.90
WHI	9	0.215|0.209	1467|851|92/1106|544|93	2410|1743	5.48	0.0192615	1	1.42	1.06	1.91
STAGE3	24	0.223|0.228	2185|1184|205/958|544|91	3574|1593	0.00	0.9733611	1	1.00	0.77	1.28
NHS2	19	0.211|0.211	723|368|59/214|112|16	1150|342	0.11	0.7369296	1	0.91	0.52	1.60
PBCS2	10	0.234|0.254	1042|597|112/398|260|50	1751|708	0.36	0.5467592	1	1.11	0.79	1.57
WHS	20	0.213|0.204	420|219|34/346|172|25	673|543	0.13	0.7177835	1	0.91	0.53	1.54
PBCS 1+2	8	0.236|0.251	1324|799|133/601|385|73	2256|1059	1.23	0.2671293	1	1.18	0.88	1.59

Locus rs3817198 Alleles T|C Chr 11p15.5 Location Neighborhood 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	12	0.325|0.335	4170|4041|961/2368|2287|625	9172|5280	6.34	0.0118045	1	1.15	1.03	1.28
NHS	12	0.318|0.328	524|509|108/373|339|95	1141|807	2.69	0.1007232	1	1.28	0.95	1.71
STAGE1-2	17	0.326|0.337	2533|2437|597/1631|1595|436	5567|3662	3.11	0.0780255	1	1.13	0.99	1.28
STAGE2	19	0.328|0.339	2009|1928|489/1258|1256|341	4426|2855	1.38	0.2403937	1	1.09	0.94	1.27
CPSII	21	0.334|0.340	243|231|64/139|138|38	538|315	0.01	0.9419659	1	1.02	0.66	1.56
PBCS1	15	0.319|0.326	229|228|47/161|150|39	504|350	0.75	0.3854013	1	1.22	0.78	1.91
PLCO	6	0.335|0.334	440|417|118/190|215|42	975|447	2.25	0.1337508	1	0.75	0.52	1.09
WHI	11	0.326|0.343	1097|1052|260/768|753|222	2409|1743	3.72	0.0536434	1	1.21	1.00	1.46
STAGE3	4	0.324|0.331	1636|1605|364/734|693|189	3605|1616	3.01	0.082724	1	1.18	0.98	1.42
NHS2	9	0.320|0.331	538|516|117/162|155|41	1171|358	0.63	0.4267461	1	1.17	0.80	1.70
PBCS2	4	0.330|0.330	789|789|189/326|301|84	1767|711	0.65	0.4212886	1	1.12	0.85	1.47
WHS	4	0.312|0.334	309|300|58/246|237|64	667|547	3.00	0.0832001	1	1.39	0.96	2.02
PBCS 1+2	10	0.328|0.327	1019|1016|236/490|450|123	2271|1063	1.05	0.3060267	1	1.13	0.90	1.42

Locus rs17570439 Alleles T|C Chr 1p34.2 Location Neighborhood 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	13	0.208|0.224	5732|3020|388/3177|1825|269	9140|5271	5.66	0.0173535	1	1.21	1.03	1.42
NHS	8	0.204|0.245	718|381|42/457|304|46	1141|807	4.47	0.034541	1	1.58	1.03	2.43
STAGE1-2	5	0.207|0.228	3472|1895|208/2196|1270|201	5575|3667	16.02	0.00006257	1	1.50	1.23	1.82
STAGE2	7	0.208|0.223	2754|1514|166/1739|966|155	4434|2860	11.60	0.0006578	1	1.47	1.18	1.84
CPSII	4	0.196|0.201	343|187|13/203|99|14	543|316	2.72	0.0990607	1	1.89	0.88	4.07
PBCS1	5	0.210|0.215	310|179|17/223|108|22	506|353	3.96	0.0466194	1	1.91	1.00	3.66
PLCO	22	0.220|0.238	599|323|53/259|165|24	975|448	0.00	0.951368	1	0.98	0.60	1.62
WHI	5	0.206|0.225	1502|825|83/1054|594|95	2410|1743	9.93	0.0016301	1	1.62	1.20	2.18
STAGE3	8	0.208|0.215	2260|1126|180/981|555|68	3566|1604	1.58	0.2083731	1	0.83	0.63	1.11

NHS2	20	0.206|0.232	730|346|61|201|125|17	1137|343	0.09	0.7665113	1	0.92	0.53	1.60
PBCS2	23	0.208|0.210	1111|557|86|448|228|35	1754|711	0.00	0.9837487	1	1.00	0.67	1.50
WHS	3	0.214|0.213	419|223|33|332|202|16	675|550	3.09	0.0786087	1	0.58	0.32	1.07
PBCS 1+2	11	0.208|0.211	1421|735|103|671|336|57	2259|1064	1.00	0.3163395	1	1.18	0.85	1.65

Locus rs1274466 Alleles T|C Chr 10p11.21 Location Neighborhood 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	14	0.452|0.433	2783|4512|1894|1706|2563|1004	9189|5273	5.16	0.0230869	1	0.91	0.83	0.99
NHS	15	0.470|0.436	312|585|244|261|388|158	1141|807	0.94	0.3319155	1	0.90	0.72	1.12
STAGE1-2	16	0.456|0.429	1656|2756|1163|1213|1761|692	5575|3666	5.43	0.0197868	1	0.88	0.79	0.98
STAGE2	15	0.452|0.427	1344|2171|919|952|1373|534	4434|2859	4.57	0.0325109	1	0.88	0.78	0.99
CPSII	15	0.471|0.440	152|271|120|101|152|63	543|316	0.56	0.4553495	1	0.88	0.62	1.24
PBCS1	14	0.483|0.457	138|247|121|104|174|74	506|352	0.99	0.320362	1	0.85	0.61	1.18
PLCO	2	0.449|0.391	298|478|199|167|212|69	975|448	5.04	0.0248099	1	0.71	0.53	0.96
WHI	19	0.443|0.428	756|1175|479|580|835|328	2410|1743	0.72	0.3953748	1	0.93	0.80	1.09
STAGE3	14	0.445|0.444	1127|1760|732|493|802|313	3619|1608	0.40	0.5252787	1	0.95	0.82	1.11
NHS2	10	0.441|0.429	379|559|240|114|168|65	1178|347	0.45	0.5016616	1	0.90	0.66	1.22
PBCS2	7	0.457|0.451	518|863|368|211|357|141	1749|709	0.41	0.5225985	1	0.93	0.75	1.16
WHS	15	0.423|0.445	230|338|124|168|277|107	692|552	0.44	0.5091459	1	1.10	0.83	1.47
PBCS 1+2	12	0.463|0.452	656|1106|488|315|531|214	2250|1060	0.97	0.3245666	1	0.91	0.76	1.09

Locus rs2391406 Alleles T|G Chr 13q33.3 Location Neighborhood 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	15	0.372|0.367	3658|4164|1315|2088|2463|694	9137|5245	3.73	0.0533315	1	0.91	0.82	1.00
NHS	20	0.371|0.366	452|529|159|323|377|107	1140|807	0.19	0.6630609	1	0.94	0.72	1.23
STAGE1-2	9	0.374|0.363	2234|2499|829|1453|1759|451	5562|3663	12.42	0.0004247	1	0.80	0.71	0.91
STAGE2	6	0.374|0.362	1782|1970|670|1130|1382|344	4422|2856	13.97	0.0001861	1	0.77	0.67	0.88
CPSII	3	0.371|0.339	217|240|79|132|150|31	536|313	4.10	0.0429967	1	0.64	0.41	0.99
PBCS1	4	0.387|0.375	195|230|81|125|190|37	506|352	5.29	0.0214797	1	0.62	0.41	0.93
PLCO	4	0.376|0.360	398|416|157|180|213|55	971|448	3.65	0.0559238	1	0.73	0.52	1.01
WHI	13	0.372|0.365	972|1084|353|693|829|221	2409|1743	3.31	0.0689402	1	0.85	0.71	1.01
STAGE3	5	0.369|0.376	1424|1669|486|635|705|243	3579|1583	2.84	0.091965	1	1.15	0.98	1.36
NHS2	1	0.344|0.402	510|503|148|129|162|60	1161|351	4.29	0.0383039	1	1.41	1.02	1.96
PBCS2	2	0.380|0.381	656|853|236|275|321|108	1745|704	1.37	0.2416372	1	1.16	0.91	1.48
WHS	18	0.384|0.352	258|313|102|231|222|75	673|528	0.21	0.6442998	1	0.93	0.67	1.28
PBCS 1+2	18	0.381|0.379	851|1079|317|400|510|145	2247|1055	0.08	0.7788188	1	0.97	0.79	1.20

Locus rs4666451 Alleles G|A Chr 2p24.1 Location Neighborhood 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	16	0.394|0.386	2956|3804|1260|1679|2133|657	8020|4469	2.25	0.1335615	1	0.92	0.83	1.02
STAGE1-2	18	0.397|0.384	1622|2102|710|1078|1366|416	4434|2860	2.87	0.0904203	1	0.89	0.78	1.02
STAGE2	17	0.397|0.384	1622|2102|710|1078|1366|416	4434|2860	2.87	0.0904203	1	0.89	0.78	1.02
CPSII	10	0.394|0.413	201|256|86|96|179|41	543|316	1.30	0.2542451	1	0.79	0.53	1.18
PBCS1	16	0.409|0.375	176|246|84|140|161|52	506|353	0.55	0.4601163	1	0.87	0.60	1.26
PLCO	12	0.393|0.394	355|474|146|170|203|75	975|448	0.73	0.3927744	1	1.14	0.84	1.55
WHI	12	0.397|0.378	890|1126|394|672|823|248	2410|1743	3.48	0.0621486	1	0.85	0.71	1.01
STAGE3	19	0.390|0.388	1336|1703|550|601|769|241	3589|1611	0.11	0.7347201	1	0.97	0.82	1.15
NHS2	4	0.384|0.369	446|528|178|134|171|43	1152|348	2.04	0.1534131	1	0.77	0.54	1.10

PBCS2	5	0.399|0.398	621|858|268|263|330|118	1747|711	0.60	0.4378246	1	1.10	0.87	1.39
WHS	22	0.380|0.388	269|317|104|204|268|80	690|552	0.08	0.7750556	1	0.96	0.70	1.31
PBCS 1+2	19	0.402|0.390	795|1103|352|403|489|170	2250|1062	0.07	0.7889656	1	1.03	0.84	1.25

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	17	0.372|0.367	3584|4307|1250|2153|2342|760	9141|5255	1.72	0.1892115	1	1.07	0.97	1.18
NHS	16	0.382|0.374	429|553|159|329|353|125	1141|807	0.92	0.3382698	1	1.13	0.88	1.46
STAGE1-2	19	0.380|0.368	2081|2738|749|1502|1623|538	5568|3663	2.81	0.0936107	1	1.11	0.98	1.25
STAGE2	18	0.380|0.367	1652|2185|590|1173|1270|413	4427|2856	1.88	0.1705393	1	1.10	0.96	1.26
CPSII	12	0.377|0.359	216|242|83|131|143|42	541|316	0.67	0.4118547	1	0.85	0.57	1.26
PBCS1	18	0.375|0.334	193|244|67|160|150|43	504|353	0.23	0.6318276	1	0.90	0.60	1.36
PLCO	18	0.371|0.354	371|484|120|188|200|58	975|446	0.14	0.7126985	1	1.07	0.76	1.49
WHI	10	0.385|0.378	872|1215|320|694|777|270	2407|1741	4.06	0.0439603	1	1.20	1.00	1.43
STAGE3	22	0.360|0.365	1503|1568|502|651|720|222	3573|1593	0.01	0.9133134	1	0.99	0.84	1.17
NHS2	24	0.364|0.373	470|516|158|136|163|48	1144|347	0.00	0.9918265	1	1.00	0.71	1.42
PBCS2	12	0.359|0.382	732|784|238|269|335|102	1754|706	0.33	0.5678786	1	1.08	0.84	1.38
WHS	7	0.356|0.339	301|268|106|246|222|72	675|540	1.35	0.2456185	1	0.83	0.60	1.14
PBCS 1+2	21	0.362|0.366	925|1029|304|429|484|145	2258|1058	0.04	0.8495183	1	1.02	0.83	1.26

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	18	0.260|0.274	4413|3055|562|2365|1767|340	8030|4472	1.57	0.2108051	1	1.09	0.95	1.26
STAGE1-2	14	0.252|0.275	2473|1688|272|1508|1131|220	4433|2859	6.72	0.0095571	1	1.28	1.06	1.53
STAGE2	12	0.252|0.275	2473|1688|272|1508|1131|220	4433|2859	6.72	0.0095571	1	1.28	1.06	1.53
CPSII	13	0.247|0.266	309|198|35|173|118|25	542|316	0.65	0.420577	1	1.24	0.73	2.12
PBCS1	13	0.246|0.265	293|177|36|198|123|32	506|353	1.09	0.297521	1	1.30	0.79	2.14
PLCO	3	0.230|0.271	569|364|42|235|182|30	975|447	3.68	0.054939	1	1.60	0.99	2.59
WHI	18	0.263|0.279	1302|949|159|902|708|133	2410|1743	1.65	0.1987933	1	1.17	0.92	1.49
STAGE3	13	0.271|0.272	1940|1371|290|857|636|120	3601|1613	0.58	0.4466171	1	0.92	0.74	1.15
NHS2	16	0.270|0.286	638|417|105|179|142|29	1160|350	0.20	0.6587086	1	0.91	0.59	1.40
PBCS2	9	0.273|0.265	926|696|131|381|280|48	1753|709	0.37	0.5430855	1	0.90	0.64	1.27
WHS	23	0.266|0.271	376|258|54|297|214|43	688|554	0.00	0.9546511	1	0.99	0.65	1.50
PBCS 1+2	22	0.267|0.265	1219|869|167|579|403|80	2255|1062	0.02	0.8964228	1	1.02	0.77	1.34

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	19	0.226|0.243	5514|3211|475|3003|1970|297	9200|5270	1.48	0.2234687	1	1.10	0.95	1.27
NHS	11	0.220|0.262	689|402|50|433|325|49	1141|807	2.80	0.0943921	1	1.41	0.94	2.11
STAGE1-2	15	0.227|0.247	3314|1996|265|2072|1377|218	5575|3667	6.34	0.011799	1	1.27	1.05	1.52
STAGE2	16	0.228|0.243	2625|1594|215|1639|1052|169	4434|2860	3.92	0.047765	1	1.23	1.00	1.52
CPSII	5	0.215|0.222	326|200|17|193|106|17	543|316	2.66	0.1030429	1	1.76	0.88	3.50
PBCS1	10	0.226|0.231	299|185|22|213|117|23	506|353	1.97	0.1606234	1	1.53	0.84	2.80
PLCO	17	0.236|0.253	578|334|63|247|175|26	975|448	0.23	0.6340213	1	0.89	0.56	1.43
WHI	14	0.228|0.247	1422|875|113|986|654|103	2410|1743	3.06	0.080433	1	1.28	0.97	1.68
STAGE3	9	0.226|0.235	2200|1215|210|931|595|80	3625|1606	1.40	0.2366277	1	0.85	0.65	1.11
NHS2	14	0.225|0.244	724|388|73|196|131|19	1185|346	0.21	0.6450339	1	0.89	0.53	1.49
PBCS2	18	0.226|0.225	1063|591|102|427|240|39	1756|706	0.08	0.7834484	1	0.95	0.65	1.39

WHS	9	0.224|0.242	413|236|35|308|224|22	684|554	0.91	0.3387976	1	0.77	0.44	1.32
PBCS 1+2	17	0.226|0.226	1362|776|124|640|355|61	2262|1056	0.12	0.7304381	1	1.06	0.77	1.45

Locus	Alleles	Chr	Location	Neighborhood						
rs10941679	A|G	5p12		44742255						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	20	0.259|0.282	2233|1539|281|991|791|148	4053|1930	1.06	0.3027903	1	1.11	0.91	1.37
STAGE3	18	0.259|0.277	1977|1345|254|830|650|118	3576|1598	0.13	0.7174062	1	1.04	0.83	1.31
NHS2	5	0.255|0.283	637|430|76|181|137|30	1143|348	1.57	0.2101805	1	1.32	0.85	2.06
PBCS2	22	0.259|0.288	969|667|121|350|308|50	1757|708	0.02	0.8767554	1	1.03	0.73	1.45
WHS	10	0.268|0.259	371|248|57|299|205|38	676|542	0.84	0.3581093	1	0.82	0.53	1.25
PBCS 1+2	7	0.259|0.293	1225|861|148|511|449|80	2234|1040	1.25	0.2639424	1	1.17	0.89	1.56

Locus	Alleles	Chr	Location	Neighborhood						
rs10850145	C|T	12q24.13		112428512						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	21	0.094|0.109	7550|1579|79|4185|1048|54	9208|5287	0.99	0.3205667	1	1.19	0.84	1.69
NHS	9	0.085|0.108	951|185|5|642|155|10	1141|807	3.97	0.046358	1	2.85	0.97	8.37
STAGE1-2	20	0.090|0.111	4627|896|52|2898|724|43	5575|3665	1.26	0.2621817	1	1.26	0.84	1.89
STAGE2	22	0.091|0.111	3676|711|47|2256|569|33	4434|2858	0.14	0.7048053	1	1.09	0.70	1.71
CPSII	18	0.099|0.111	444|90|9|250|62|4	543|316	0.21	0.6502727	1	0.76	0.23	2.49
PBCS1	21	0.094|0.123	417|83|6|270|79|4	506|353	0.01	0.9435991	1	0.96	0.27	3.41
PLCO	21	0.077|0.106	832|135|8|357|87|4	975|448	0.02	0.8897585	1	1.09	0.33	3.64
WHI	20	0.094|0.110	1983|403|24|1379|341|21	2410|1741	0.42	0.518391	1	1.21	0.67	2.19
STAGE3	20	0.102|0.107	2923|684|27|1289|324|11	3634|1624	0.07	0.795148	1	0.91	0.45	1.84
NHS2	6	0.103|0.100	947|218|12|290|59|6	1177|355	1.06	0.3040581	1	1.67	0.62	4.48
PBCS2	17	0.104|0.107	1412|338|15|565|143|5	1765|713	0.14	0.7082136	1	0.82	0.30	2.28
WHS	24	0.092|0.110	564|128|0|434|122|0	692|556	-		1	1.00	1.00	1.00
PBCS 1+2	20	0.102|0.113	1829|420|21|833|222|9	2270|1064	0.05	0.8213018	1	0.91	0.42	2.00

Locus	Alleles	Chr	Location	Neighborhood						
rs2303659	G|A	11q24.3		129326474 PRDM10						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	22	0.034|0.026	8545|608|10|4997|257|9	9163|5263	0.97	0.3239637	1	1.57	0.64	3.86
NHS	22	0.034|0.026	1063|78|0|765|42|0	1141|807	-		1	1.00	1.00	1.00
STAGE1-2	21	0.034|0.025	5197|376|2|3487|178|2	5575|3667	0.18	0.6729668	1	1.52	0.21	10.80
STAGE2	21	0.034|0.024	4134|298|2|2722|136|2	4434|2860	0.20	0.6584003	1	1.55	0.22	11.02
CPSII	24	0.030|0.019	510|33|0|305|10|1	543|316						
PBCS1	22	0.033|0.024	473|33|0|336|17|0	506|353	-		1	1.00	1.00	1.00
PLCO	24	0.036|0.026	906|68|1|425|23|0	975|448						
WHI	23	0.034|0.025	2245|164|1|1656|86|1	2410|1743	0.05	0.8179558	1	1.38	0.09	22.12
STAGE3	7	0.035|0.029	3348|232|8|1511|79|7	3588|1597	1.78	0.1825421	1	1.97	0.71	5.44
NHS2	7	0.040|0.030	1074|82|5|334|15|3	1161|352	0.91	0.3393545	1	1.99	0.47	8.36
PBCS2	24	0.032|0.028	1648|112|1|669|40|0	1761|709						
WHS	8	0.032|0.030	626|38|2|508|24|4	666|536	1.19	0.2754831	1	2.50	0.46	13.68
PBCS 1+2	24	0.032|0.027	2121|145|1|1004|57|0	2267|1061						

Locus	Alleles	Chr	Location	Neighborhood						
rs12622050	G|A	2q11.2		100945886 NPAS2						
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u

STAGE1-3	23	0.225|0.208	5470|3225|447|3307|1695|246	9142|5248	0.30	0.5858671	1	0.96	0.82	1.12
NHS	13	0.220|0.189	694|392|55|529|251|27	1141|807	2.55	0.1103616	1	0.68	0.43	1.09
STAGE1-2	22	0.220|0.200	3355|1980|239|2361|1141|162	5574|3664	0.10	0.757819	1	1.03	0.84	1.27
STAGE2	20	0.221|0.203	2661|1588|184|1832|890|135	4433|2857	1.37	0.2417132	1	1.15	0.91	1.44
CPSII	2	0.217|0.213	323|203|16|201|94|20	542|315	5.71	0.0168376	1	2.23	1.14	4.37
PBCS1	8	0.244|0.249	284|197|25|204|121|27	506|352	2.72	0.099286	1	1.60	0.91	2.80
PLCO	8	0.229|0.195	577|350|48|288|145|15	975|448	1.80	0.1798022	1	0.67	0.37	1.21
WHI	22	0.213|0.194	1477|838|95|1139|530|73	2410|1742	0.16	0.6881903	1	1.07	0.78	1.46
STAGE3	12	0.233|0.227	2116|1247|208|947|555|83	3571|1585	0.71	0.3984618	1	0.89	0.69	1.16
NHS2	18	0.205|0.215	734|358|56|210|117|15	1148|342	0.14	0.7076832	1	0.89	0.50	1.60
PBCS2	19	0.252|0.245	980|644|117|402|254|45	1741|701	0.07	0.7869553	1	0.95	0.67	1.36
WHS	13	0.231|0.212	402|245|35|335|184|23	682|542	0.53	0.4674266	1	0.82	0.48	1.40
PBCS 1+2	15	0.250|0.247	1263|839|142|605|374|73	2244|1052	0.44	0.5077198	1	1.10	0.82	1.48

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95%	hom OR 95% CI_u
STAGE1-3	24	0.258|0.249	5016|3564|583|2989|1934|347	9163|5270	0.27	0.6011485	1	1.04	0.90	1.19
NHS	18	0.256|0.247	634|430|77|470|276|61	1141|807	0.47	0.4922476	1	1.13	0.80	1.60
STAGE1-2	23	0.263|0.245	3002|2205|365|2117|1303|246	5572|3666	0.09	0.7625246	1	1.03	0.87	1.21
STAGE2	23	0.265|0.244	2368|1775|288|1647|1027|185	4431|2859	0.00	0.9610353	1	1.00	0.82	1.20
CPSII	19	0.266|0.222	286|224|32|197|98|21	542|316	0.19	0.6634322	1	1.13	0.64	2.00
PBCS1	19	0.247|0.229	284|193|28|212|119|21	505|352	0.07	0.7938092	1	1.08	0.60	1.94
PLCO	15	0.263|0.253	526|385|64|254|161|33	975|448	0.31	0.5771869	1	1.13	0.73	1.75
WHI	21	0.270|0.249	1272|973|164|984|649|110	2409|1743	0.41	0.5245079	1	0.92	0.72	1.18
STAGE3	21	0.250|0.259	2014|1359|218|872|631|100	3591|1603	0.05	0.8160019	1	1.03	0.81	1.31
NHS2	23	0.264|0.241	630|457|79|204|123|23	1166|350	0.02	0.8937776	1	0.97	0.60	1.56
PBCS2	8	0.245|0.268	993|643|105|372|282|47	1741|701	0.39	0.5330353	1	1.12	0.78	1.60
WHS	19	0.239|0.259	391|259|34|296|226|30	684|552	0.13	0.7143582	1	1.10	0.66	1.82
PBCS 1+2	14	0.245|0.256	1277|836|133|584|401|69	2246|1054	0.49	0.4850899	1	1.11	0.82	1.50

Supplementary Table 3. Results of Combined Analysis of Multi-stage Analysis of Breast Cancer with Stages 1, 2 and 3 for 24 SNPs for ER- Cases Only Compared to Controls

Data dictionary

Locus – dbSNP ID
 Alleles – SNP alleles, listed as major|minor
 Chr – chromosomal mapping
 Location – chromosomal location based on NCBI genome build 36.3
 Neighborhood – known protein-coding gene(s) within the vicinity, if the SNP lies within 20kb 5' of the start of transcription of the gene and 10kb 3' of the last exon.
 SUBSET – Analytic subset of the data
 Rank – p value rank relative to the 24 SNPs within each study.
 MAF – Minor allele frequency (controls|cases)
 Geno counts – genotype counts for each observed genotype (Major homozygote controls|heterozygote controls|minor homozygote controls/ Major homozygote cases|heterozygote cases|minor homozygote cases)
 Subjects – number of subjects (controls|cases)
 Score X2 – X² statistic for association by a Score test
 Score p-value – significance level for X² statistic
 df – degrees of freedom of X² statistic
 het OR – Odds ratio for the heterozygote genotype (not included for recessive models)
 het OR 95% CI_l – lower bound of the 95% confidence interval of the Odds ratio
 het OR 95% CI_u – upper bound of the 95% confidence interval of the Odds ratio

Supplementary Table results:

adj_geno – covariate adjusted, genotype-specific effect model
 adj_trend – covariate adjusted, trend effect model
 adj_rec – covariate adjusted, recessive effect model
 unadj_geno – unadjusted, genotype-specific effect model
 unadj_trend – unadjusted, trend effect model
 unadj_rec – unadjusted, recessive effect model

adj_geno

Locus	Alleles	Chr	Location	Neighborhood											
rs2303659	G|A	11q24.3		129326474 PRDM10											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	1	0.034|0.024	8222|583|10|1229|59|2	8815|1290	8.54	0.013995	2	0.67	0.51	0.89	1.73	0.37	8.08		
NHS	22	0.034|0.022	1063|78|0|175|8|0	1141|183											
STAGE1-2	23	0.034|0.022	4926|356|2|733|34|0	5284|767											
STAGE2	23	0.034|0.022	3863|278|2|558|26|0	4143|584											
PBCS1	22	0.033|0.021	473|33|0|181|8|0	506|189											
PLCO	24	0.036|0.020	906|68|1|71|3|0	975|74											
WHI	24	0.034|0.025	2245|163|1|280|15|0	2409|295											
STAGE3	3	0.034|0.028	3296|227|8|496|25|2	3531|523	3.26	0.196394	2	0.73	0.47	1.11	2.22	0.46	10.74		
NHS2	24	0.039|0.000	1029|77|5|84|0|0	1111|84											
PBCS2	11	0.032|0.033	1648|112|1|322|21|1	1761|344	1.65	0.4390201	2	0.96	0.59	1.56	5.05	0.31	81.27		
WHS	11	0.032|0.032	619|38|2|90|4|1	659|95	2.58	0.2751139	2	0.60	0.21	1.77	4.39	0.38	50.34		
PBCS 1+2	5	0.032|0.029	2121|145|1|503|29|1	2267|533	2.36	0.3066345	2	0.84	0.55	1.27	5.07	0.32	81.51		
Locus	Alleles	Chr	Location	Neighborhood											
rs2391406	T|G	13q33.3		106586873											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	2	0.372|0.360	3513|4015|1265/511|627|150	8793|1288	8.19	0.0166206	2	1.06	0.93	1.20	0.80	0.66	0.97		
NHS	16	0.371|0.358	452|529|159/72|91|20	1140|183	1.63	0.4423565	2	1.10	0.79	1.55	0.79	0.47	1.34		
STAGE1-2	3	0.375|0.354	2110|2378|788/308|373|85	5276|766	9.39	0.0091241	2	1.08	0.92	1.27	0.73	0.56	0.94		
STAGE2	4	0.376|0.353	1658|1849|629/236|282|65	4136|583	8.05	0.0178778	2	1.07	0.89	1.29	0.71	0.53	0.95		

PBCS1	17	0.387|0.362	195|230|81|78|84|26	506|188	0.48	0.7848846	2	0.90	0.62	1.31	0.85	0.50	1.43
PLCO	5	0.376|0.345	398|416|157|29|39|6	971|74	4.33	0.1149279	2	1.29	0.78	2.15	0.53	0.21	1.32
WHI	9	0.372|0.344	971|1084|353|123|141|31	2408|295	4.07	0.1305677	2	1.03	0.80	1.34	0.68	0.45	1.04
STAGE3	20	0.369|0.368	1403|1641|477|203|253|65	3521|521	0.58	0.7478914	2	1.02	0.83	1.24	0.91	0.67	1.23
NHS2	15	0.341|0.359	493|477|140|34|41|10	1110|85	0.76	0.6823945	2	1.22	0.76	1.96	1.00	0.48	2.09
PBCS2	23	0.380|0.382	656|853|236|126|171|45	1745|342	0.12	0.9434812	2	1.04	0.81	1.34	0.99	0.69	1.44
WHS	8	0.385|0.324	254|311|101|43|41|10	666|94	3.36	0.1862371	2	0.75	0.47	1.20	0.53	0.26	1.11
PBCS 1+2	20	0.381|0.375	851|1079|317|204|256|71	2247|531	0.26	0.8775225	2	1.01	0.82	1.24	0.94	0.69	1.27

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.208|0.231	5507|2905|379|759|465|65	8791|1289	7.59	0.0225359	2	1.16	1.03	1.32	1.29	0.98	1.71
NHS	8	0.204|0.238	718|381|42|107|65|11	1141|183	3.52	0.1719425	2	1.18	0.84	1.65	1.86	0.92	3.76
STAGE1-2	11	0.208|0.233	3285|1798|201|446|283|37	5284|766	5.62	0.0600645	2	1.16	0.98	1.36	1.42	0.98	2.06
STAGE2	13	0.209|0.232	2567|1417|159|339|218|26	4143|583	3.00	0.2230238	2	1.15	0.96	1.39	1.29	0.83	2.01
PBCS1	16	0.210|0.214	310|179|17|113|71|5	506|189	0.66	0.7200068	2	1.03	0.72	1.48	0.67	0.23	1.91
PLCO	8	0.220|0.243	599|323|53|40|32|2	975|74	3.61	0.1646956	2	1.46	0.90	2.39	0.54	0.12	2.31
WHI	6	0.206|0.238	1501|825|83|171|106|17	2409|294	4.77	0.092217	2	1.13	0.88	1.47	1.79	1.03	3.09
STAGE3	4	0.209|0.228	2222|1108|178|313|182|28	3508|523	2.19	0.3352836	2	1.16	0.95	1.41	1.13	0.74	1.72
NHS2	18	0.208|0.235	694|332|60|51|28|6	1086|85	0.48	0.788286	2	1.13	0.70	1.83	1.29	0.53	3.15
PBCS2	16	0.208|0.215	1111|557|86|211|115|16	1754|342	0.48	0.7873483	2	1.09	0.85	1.39	0.97	0.56	1.68
WHS	10	0.212|0.266	417|219|32|51|39|6	668|96	2.65	0.2660175	2	1.43	0.91	2.25	1.48	0.58	3.75
PBCS 1+2	13	0.208|0.215	1421|735|103|324|186|21	2259|531	0.82	0.6635689	2	1.08	0.88	1.33	0.92	0.56	1.50

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.227|0.250	5293|3091|463|722|489|77	8847|1288	7.47	0.0238664	2	1.16	1.02	1.31	1.28	0.99	1.65
NHS	5	0.220|0.260	689|402|50|101|69|13	1141|183	4.52	0.104505	2	1.22	0.87	1.70	1.93	1.00	3.70
STAGE1-2	5	0.228|0.256	3133|1895|256|420|302|45	5284|767	6.59	0.0371477	2	1.19	1.01	1.40	1.38	0.98	1.94
STAGE2	11	0.230|0.254	2444|1493|206|319|233|32	4143|584	3.64	0.1623625	2	1.18	0.98	1.42	1.23	0.83	1.84
PBCS1	11	0.226|0.235	299|185|22|106|77|6	506|189	1.43	0.4889328	2	1.13	0.79	1.60	0.65	0.25	1.69
PLCO	9	0.236|0.264	578|334|63|38|33|3	975|74	3.26	0.1963507	2	1.46	0.89	2.39	0.66	0.20	2.24
WHI	7	0.229|0.264	1421|875|113|160|114|21	2409|295	4.30	0.1163665	2	1.16	0.90	1.50	1.63	0.99	2.67
STAGE3	15	0.226|0.241	2160|1196|207|302|188|32	3563|522	1.27	0.5296789	2	1.11	0.91	1.35	1.13	0.76	1.68
NHS2	14	0.228|0.229	687|372|72|52|24|7	1131|83	0.98	0.6140392	2	0.83	0.50	1.38	1.25	0.55	2.86
PBCS2	14	0.226|0.230	1063|591|102|202|124|17	1756|343	1.06	0.5880079	2	1.10	0.86	1.41	1.07	0.87	1.49
WHS	4	0.221|0.292	410|233|33|48|40|8	676|96	4.12	0.1275644	2	1.45	0.92	2.28	1.97	0.85	4.56
PBCS 1+2	6	0.226|0.232	1362|776|124|308|200|23	2262|531	2.09	0.351493	2	1.12	0.92	1.37	0.84	0.53	1.34

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.425|0.404	2956|4239|1625|446|647|199	8820|1292	6.30	0.0428016	2	1.04	0.91	1.19	0.84	0.70	1.00
NHS	4	0.424|0.434	405|502|232|54|99|30	1139|183	5.73	0.0570108	2	1.46	1.02	2.09	0.99	0.61	1.59
STAGE1-2	2	0.436|0.403	1716|2524|1042|264|388|115	5282|767	9.65	0.0080141	2	1.05	0.88	1.24	0.74	0.58	0.93
STAGE2	3	0.440|0.393	1311|2022|810|210|289|85	4143|584	8.59	0.0136357	2	0.94	0.77	1.15	0.67	0.51	0.89
PBCS1	4	0.415|0.368	186|220|100|74|91|24	506|189	4.54	0.1030946	2	1.09	0.75	1.59	0.63	0.37	1.07
PLCO	19	0.419|0.426	324|485|166|25|35|14	975|74	0.41	0.8165405	2	0.95	0.56	1.64	1.18	0.59	2.35
WHI	3	0.450|0.403	729|1192|488|100|152|43	2409|295	5.97	0.0505853	2	0.92	0.70	1.21	0.63	0.43	0.92
STAGE3	21	0.407|0.407	1240|1715|584|182|260|84	3539|526	0.17	0.9193846	2	1.04	0.85	1.28	1.01	0.76	1.33
NHS2	7	0.417|0.482	378|542|193|22|43|19	1113|84	3.15	0.2068008	2	1.37	0.81	2.34	1.77	0.93	3.36
PBCS2	21	0.400|0.397	625|849|274|122|171|51	1748|344	0.26	0.8770932	2	1.03	0.80	1.33	0.94	0.66	1.35

WHS	21	0.412|0.378	237|324|117|38|46|14	678|98	0.41	0.8151814	2	0.91	0.57	1.45	0.81	0.42	1.57
PBCS 1+2	3	0.403|0.386	811|1069|373|196|261|75	2253|532	2.43	0.2974067	2	1.04	0.84	1.28	0.83	0.62	1.11

Locus rs7936636 Alleles C|T Chr 11p11.2 Location Neighborhood 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.258|0.234	4826|3425|560|759|457|74	8811|1290	6.01	0.0495141	2	0.86	0.76	0.98	0.85	0.66	1.11
NHS	10	0.256|0.219	634|430|77|110|66|7	1141|183	2.68	0.2612242	2	0.89	0.64	1.24	0.53	0.24	1.18
STAGE1-2	1	0.263|0.226	2851|2086|344|465|258|44	5281|767	10.74	0.0046652	2	0.76	0.65	0.90	0.80	0.58	1.13
STAGE2	1	0.264|0.228	2217|1656|267|355|192|37	4140|584	10.86	0.0043817	2	0.73	0.60	0.88	0.90	0.62	1.30
PBCS1	6	0.247|0.228	284|193|28|115|62|12	505|189	2.06	0.356887	2	0.77	0.54	1.11	1.04	0.50	2.15
PLCO	7	0.263|0.243	526|385|64|45|22|7	975|74	3.76	0.1525864	2	0.65	0.38	1.11	1.35	0.57	3.17
WHI	2	0.270|0.219	1272|973|163|181|99|15	2408|295	8.04	0.0179671	2	0.71	0.55	0.92	0.65	0.38	1.13
STAGE3	23	0.251|0.248	1975|1339|216|294|199|30	3530|523	0.11	0.9456688	2	1.02	0.84	1.24	0.95	0.63	1.42
NHS2	16	0.266|0.244	598|438|77|47|33|4	1113|84	0.71	0.7002809	2	0.96	0.60	1.52	0.64	0.22	1.83
PBCS2	13	0.245|0.265	993|643|105|185|133|24	1741|342	1.06	0.5873326	2	1.11	0.87	1.41	1.21	0.76	1.95
WHS	9	0.241|0.191	384|258|34|62|33|2	676|97	2.81	0.2455655	2	0.80	0.51	1.27	0.35	0.08	1.49
PBCS 1+2	18	0.245|0.251	1277|836|133|300|195|36	2246|531	0.46	0.7932746	2	0.98	0.80	1.21	1.13	0.76	1.68

Locus rs10850145 Alleles C|T Chr 12q24.13 Location Neighborhood 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.094|0.108	7261|1521|74|1029|245|17	8856|1291	5.71	0.0575844	2	1.14	0.98	1.33	1.64	0.95	2.83
NHS	1	0.085|0.117	951|185|5|145|33|5	1141|183	10.40	0.0055123	2	1.23	0.82	1.87	6.15	1.71	22.09
STAGE1-2	10	0.089|0.108	4388|849|47|612|144|11	5284|767	5.87	0.0531975	2	1.21	0.99	1.48	1.71	0.87	3.37
STAGE2	15	0.090|0.105	3437|664|42|467|111|6	4143|584	2.51	0.2857122	2	1.20	0.96	1.52	1.05	0.44	2.53
PBCS1	14	0.094|0.101	417|83|6|152|36|1	506|189	0.90	0.6387553	2	1.18	0.76	1.83	0.54	0.06	4.59
PLCO	22	0.077|0.122	832|135|8|56|18|0	975|74									
WHI	19	0.094|0.107	1982|403|24|236|55|4	2409|295	0.82	0.6620569	2	1.14	0.83	1.56	1.32	0.45	3.90
STAGE3	14	0.102|0.108	2873|673|27|417|101|6	3573|524	1.50	0.4734328	2	1.04	0.82	1.32	1.73	0.70	4.28
NHS2	1	0.103|0.137	905|207|12|65|15|4	1124|84	7.27	0.0264493	2	1.01	0.56	1.81	4.38	1.36	14.13
PBCS2	19	0.104|0.105	1412|338|15|273|68|2	1765|343	0.34	0.8453081	2	1.06	0.79	1.41	0.72	0.16	3.17
WHS	24	0.094|0.093	556|128|0|79|18|0	684|97									
PBCS 1+2	8	0.102|0.103	1829|420|21|425|104|3	2270|532	1.42	0.4905684	2	1.11	0.87	1.41	0.60	0.18	2.04

Locus rs17740709 Alleles A|G Chr 12q21.31 Location Neighborhood 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.219|0.210	5354|3028|417|811|412|65	8799|1288	4.91	0.0858372	2	0.87	0.76	0.98	0.98	0.74	1.29
NHS	11	0.218|0.180	691|402|48|121|58|4	1141|183	2.67	0.2631997	2	0.83	0.59	1.17	0.50	0.17	1.41
STAGE1-2	6	0.218|0.213	3200|1869|215|481|246|40	5284|767	6.55	0.0377668	2	0.84	0.71	0.99	1.22	0.85	1.75
STAGE2	2	0.217|0.223	2509|1467|167|360|188|36	4143|584	8.62	0.0134652	2	0.84	0.69	1.02	1.47	1.00	2.17
PBCS1	7	0.242|0.254	282|203|21|106|70|13	506|189	1.91	0.3839873	2	0.94	0.66	1.35	1.61	0.77	3.37
PLCO	13	0.214|0.209	603|326|46|48|21|5	975|74	1.24	0.5367209	2	0.79	0.46	1.35	1.33	0.49	3.60
WHI	8	0.215|0.212	1466|851|92|187|91|17	2409|295	4.09	0.1290817	2	0.83	0.64	1.08	1.40	0.81	2.41
STAGE3	8	0.222|0.207	2154|1160|202|330|166|25	3516|521	1.84	0.3994345	2	0.92	0.75	1.13	0.77	0.50	1.18
NHS2	17	0.210|0.204	694|349|56|53|23|5	1099|81	0.64	0.7247247	2	0.85	0.51	1.42	1.23	0.47	3.21
PBCS2	12	0.234|0.212	1042|597|112|215|109|18	1751|342	1.43	0.4881079	2	0.89	0.70	1.15	0.78	0.46	1.31
WHS	12	0.212|0.194	418|214|34|62|34|2	666|98	2.45	0.2938574	2	1.06	0.67	1.67	0.34	0.08	1.47
PBCS 1+2	10	0.236|0.227	1324|799|133|321|179|31	2256|531	1.22	0.5443172	2	0.89	0.73	1.09	0.95	0.63	1.43

Locus rs999737 Alleles C|T Chr 14q24.1 Location Neighborhood 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.238|0.228	5166|3096|548|760|466|61	8810|1287	3.88	0.1433545	2	1.01	0.89	1.14	0.76	0.58	1.01
NHS	19	0.244|0.239	660|405|76|105|67|10	1141|182	0.49	0.7842518	2	1.03	0.74	1.44	0.80	0.40	1.61
STAGE1-2	15	0.239|0.224	3092|1862|330|459|271|36	5284|766	3.08	0.2145374	2	0.96	0.82	1.14	0.72	0.50	1.04
STAGE2	14	0.237|0.219	2432|1457|254|354|204|26	4143|584	2.90	0.2347573	2	0.95	0.78	1.14	0.70	0.45	1.07
PBCS1	13	0.242|0.228	291|185|30|115|62|12	506|189	1.09	0.578606	2	0.83	0.57	1.19	1.00	0.49	2.04
PLCO	11	0.238|0.189	576|334|65|48|24|2	975|74	2.11	0.3484817	2	0.84	0.50	1.41	0.38	0.09	1.62
WHI	14	0.235|0.224	1416|854|139|174|110|11	2409|295	2.15	0.3419965	2	1.06	0.82	1.36	0.65	0.35	1.24
STAGE3	13	0.237|0.235	2075|1237|218|302|195|25	3530|522	1.52	0.4667166	2	1.06	0.87	1.28	0.80	0.52	1.24
NHS2	11	0.234|0.212	664|362|77|52|30|3	1103|85	1.50	0.4727482	2	1.06	0.66	1.70	0.50	0.15	1.66
PBCS2	24	0.236|0.234	1016|637|94|198|125|17	1747|340	0.10	0.9505529	2	1.00	0.79	1.28	0.92	0.54	1.58
WHS	13	0.244|0.258	395|238|47|52|40|5	680|97	1.81	0.4043374	2	1.29	0.82	2.02	0.77	0.29	2.06
PBCS 1+2	23	0.237|0.232	1306|819|124|312|187|29	2249|528	0.21	0.8982928	2	0.95	0.78	1.17	0.97	0.63	1.49

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.451|0.437	2683|4344|1810|399|650|238	8837|1287	3.30	0.1918538	2	1.01	0.88	1.15	0.87	0.73	1.04
NHS	13	0.470|0.432	312|585|244|55|98|30	1141|183	2.13	0.3450513	2	0.96	0.67	1.37	0.72	0.44	1.16
STAGE1-2	4	0.454|0.428	1574|2618|1092|239|399|129	5284|767	6.81	0.0332152	2	1.00	0.84	1.20	0.76	0.61	0.96
STAGE2	8	0.450|0.427	1262|2033|848|184|301|99	4143|584	4.81	0.0904374	2	1.02	0.83	1.25	0.78	0.60	1.02
PBCS1	5	0.483|0.439	138|247|121|57|98|34	506|189	2.37	0.3061717	2	0.99	0.67	1.48	0.71	0.43	1.17
PLCO	21	0.449|0.453	298|478|199|22|37|15	975|74	0.04	0.9802614	2	1.06	0.61	1.84	1.03	0.52	2.06
WHI	10	0.443|0.408	755|1175|479|99|151|45	2409|295	3.29	0.1934871	2	0.98	0.75	1.29	0.73	0.50	1.06
STAGE3	24	0.445|0.450	1109|1730|719|161|251|109	3558|521	0.11	0.9469243	2	1.00	0.80	1.23	1.04	0.80	1.35
NHS2	3	0.440|0.506	363|535|227|19|46|20	1125|85	3.85	0.145902	2	1.69	0.97	2.94	1.68	0.88	3.22
PBCS2	7	0.457|0.432	518|863|368|115|156|69	1749|340	2.36	0.3071296	2	0.82	0.63	1.06	0.85	0.61	1.18
WHS	16	0.424|0.464	228|332|124|27|49|20	684|96	1.13	0.5688271	2	1.30	0.78	2.15	1.29	0.68	2.43
PBCS 1+2	2	0.463|0.436	656|1106|488|171|254|103	2250|528	3.01	0.2215092	2	0.87	0.70	1.08	0.79	0.60	1.04

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.136|0.132	6618|2036|188|984|274|33	8842|1291	3.22	0.199711	2	0.90	0.78	1.04	1.20	0.82	1.76
NHS	7	0.153|0.156	818|296|27|127|55|1	1141|183	3.57	0.1674869	2	1.19	0.84	1.68	0.23	0.03	1.74
STAGE1-2	19	0.143|0.143	3887|1281|116|569|176|22	5284|767	2.20	0.3328455	2	0.92	0.77	1.11	1.31	0.82	2.11
STAGE2	6	0.140|0.140	3069|985|89|442|121|21	4143|584	7.45	0.0240718	2	0.84	0.67	1.04	1.69	1.02	2.78
PBCS1	19	0.153|0.135	364|129|13|142|43|4	506|189	0.35	0.8396533	2	0.90	0.60	1.34	0.83	0.26	2.63
PLCO	1	0.132|0.162	738|216|21|57|10|7	975|74	14.48	0.000717	2	0.57	0.28	1.14	4.07	1.61	10.29
WHI	20	0.141|0.137	1783|572|54|222|65|8	2409|295	0.62	0.7319482	2	0.92	0.68	1.23	1.20	0.56	2.57
STAGE3	11	0.127|0.115	2733|758|72|415|99|11	3563|525	1.66	0.435133	2	0.86	0.68	1.09	1.05	0.55	2.00
NHS2	8	0.126|0.138	869|243|21|67|16|4	1133|87	2.87	0.2384345	2	0.87	0.49	1.53	2.35	0.78	7.09
PBCS2	5	0.124|0.102	1344|368|32|276|62|4	1744|342	2.50	0.2871595	2	0.81	0.60	1.10	0.63	0.22	1.79
WHS	23	0.135|0.141	520|147|19|72|21|3	686|96	0.11	0.9446064	2	1.09	0.64	1.84	1.12	0.32	3.95
PBCS 1+2	1	0.130|0.113	1706|494|45|418|104|8	2245|530	3.04	0.2188561	2	0.83	0.66	1.06	0.68	0.32	1.46

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O, AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.374|0.360	3426|4157|1207|533|588|171	8790|1292	2.36	0.3065605	2	0.91	0.80	1.04	0.90	0.75	1.09
NHS	18	0.382|0.374	429|553|159|73|83|27	1141|183	0.71	0.7009351	2	0.87	0.62	1.22	0.96	0.59	1.56
STAGE1-2	14	0.383|0.362	1953|2611|714|311|356|100	5278|767	3.54	0.1699685	2	0.86	0.73	1.02	0.85	0.67	1.09
STAGE2	12	0.383|0.359	1524|2058|555|238|273|73	4137|584	3.30	0.1920892	2	0.85	0.71	1.03	0.82	0.61	1.09
PBCS1	18	0.375|0.381	193|244|67|74|86|29	504|189	0.37	0.8305261	2	0.98	0.68	1.42	1.15	0.68	1.93

PLCO	18	0.371|0.358	371|484|120|30|35|9	975|74	0.43	0.8052884	2	0.85	0.51	1.42	0.87	0.40	1.93
WHI	5	0.385|0.342	871|1215|320|124|140|31	2406|295	4.97	0.0834406	2	0.80	0.61	1.03	0.67	0.44	1.01
STAGE3	22	0.361|0.356	1473|1545|494|222|232|71	3512|525	0.13	0.9388293	2	0.99	0.82	1.21	0.95	0.71	1.27
NHS2	6	0.364|0.341	446|495|150|41|30|14	1091|85	3.51	0.173045	2	0.64	0.39	1.05	0.98	0.52	1.85
PBCS2	22	0.359|0.366	732|784|238|141|153|49	1754|343	0.14	0.9335043	2	1.01	0.79	1.30	1.07	0.75	1.53
WHS	2	0.358|0.335	295|266|106|40|49|8	667|97	6.58	0.0372111	2	1.34	0.85	2.12	0.50	0.23	1.12
PBCS 1+2	16	0.362|0.371	925|1029|304|215|239|78	2258|532	0.55	0.7595476	2	0.98	0.80	1.21	1.09	0.82	1.47

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.156|0.162	6264|2378|185/908|352|33	8827|1293	1.90	0.3873854	2	1.05	0.92	1.21	1.27	0.86	1.85
NHS	20	0.159|0.164	807|306|28|129|48|6	1141|183	0.26	0.8762486	2	0.99	0.69	1.42	1.26	0.51	3.13
STAGE1-2	7	0.155|0.175	3739|1443|99/522|222|23	5281|767	6.49	0.038982	2	1.13	0.95	1.34	1.72	1.07	2.75
STAGE2	5	0.154|0.178	2932|1137|71/393|174|17	4140|584	7.64	0.0219688	2	1.18	0.97	1.43	1.94	1.12	3.37
PBCS1	8	0.138|0.148	373|123|8|134|54|1	504|189	1.84	0.3981856	2	1.18	0.81	1.74	0.36	0.04	2.93
PLCO	2	0.156|0.230	688|270|17/41|32|1	975|74	7.58	0.0225918	2	1.96	1.20	3.20	0.97	0.12	7.68
WHI	1	0.154|0.186	1704|664|40/200|80|15	2408|295	15.35	0.0004633	2	1.04	0.79	1.37	3.21	1.74	5.93
STAGE3	18	0.156|0.143	2525|935|85/386|130|10	3545|526	0.78	0.6754353	2	0.93	0.75	1.16	0.80	0.41	1.55
NHS2	22	0.167|0.161	777|314|30/61|24|2	1121|87	0.10	0.9491438	2	0.96	0.58	1.56	0.81	0.19	3.48
PBCS2	15	0.148|0.136	1266|440|38/254|81|6	1744|341	0.69	0.7075004	2	0.91	0.69	1.20	0.78	0.33	1.86
WHS	22	0.158|0.148	482|181|17/71|25|2	680|98	0.28	0.8699051	2	0.96	0.59	1.58	0.67	0.15	3.05
PBCS 1+2	11	0.146|0.141	1639|563|47/388|135|7	2249|530	1.10	0.5780776	2	1.01	0.81	1.26	0.66	0.29	1.47

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.225|0.225	5271|3090|432/779|439|70	8793|1288	1.47	0.4784246	2	0.93	0.82	1.05	1.01	0.77	1.31
NHS	9	0.220|0.191	694|392|55|122|52|9	1141|183	2.78	0.2485347	2	0.74	0.52	1.05	0.89	0.43	1.86
STAGE1-2	8	0.220|0.202	3182|1875|227/492|240|35	5284|767	6.41	0.0405122	2	0.81	0.68	0.95	0.93	0.64	1.35
STAGE2	10	0.220|0.205	2488|1483|172/370|188|26	4143|584	3.84	0.1469385	2	0.83	0.68	1.00	0.94	0.60	1.46
PBCS1	15	0.244|0.222	284|197|25|114|66|9	506|189	0.85	0.6534054	2	0.85	0.60	1.22	0.84	0.37	1.88
PLCO	15	0.229|0.203	577|350|48/47|24|3	975|74	0.70	0.7049764	2	0.84	0.50	1.40	0.70	0.21	2.36
WHI	11	0.213|0.198	1476|838|95/192|89|14	2409|295	3.03	0.2197358	2	0.80	0.61	1.05	1.12	0.63	2.01
STAGE3	10	0.232|0.258	2090|1217|205/287|199|35	3512|521	1.70	0.4271752	2	1.13	0.93	1.38	1.15	0.78	1.68
NHS2	19	0.200|0.204	712|332|53/51|27|3	1097|81	0.46	0.795491	2	1.13	0.69	1.83	0.78	0.24	2.59
PBCS2	6	0.252|0.278	980|644|117/177|141|25	1741|343	2.43	0.2970019	2	1.21	0.95	1.54	1.18	0.74	1.87
WHS	17	0.231|0.232	398|241|35/59|31|7	674|97	1.11	0.5739392	2	0.85	0.53	1.36	1.35	0.57	3.22
PBCS 1+2	14	0.250|0.258	1263|839|142/291|207|34	2244|532	0.80	0.6696249	2	1.10	0.90	1.34	1.06	0.71	1.58

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.384|0.370	3358|3974|1348/513|560|186	8680|1259	1.36	0.5065588	2	0.93	0.81	1.06	0.94	0.78	1.13
NHS	3	0.399|0.369	403|541|177/77|68|31	1121|176	6.13	0.0467686	2	0.65	0.46	0.92	0.91	0.57	1.43
STAGE1-2	16	0.400|0.376	1731|2149|796/227|246|88	4676|561	3.02	0.2205775	2	0.86	0.71	1.05	0.83	0.64	1.08
STAGE2	17	0.400|0.379	1328|1608|619/150|178|57	3555|385	2.00	0.3684582	2	0.98	0.78	1.23	0.80	0.58	1.10
PLCO	17	0.378|0.396	379|431|146/26|35|11	956|72	0.46	0.7938521	2	1.20	0.71	2.05	1.13	0.54	2.36
WHI	16	0.409|0.387	857|1064|430/111|131|46	2351|288	1.02	0.6018528	2	0.95	0.72	1.24	0.83	0.58	1.19
STAGE3	16	0.366|0.382	1434|1610|490/203|238|80	3534|521	1.01	0.604049	2	1.04	0.85	1.27	1.16	0.87	1.53
NHS2	5	0.366|0.419	457|508|157/32|36|18	1122|86	3.64	0.1624217	2	1.02	0.62	1.68	1.72	0.93	3.16
PBCS2	9	0.368|0.362	706|782|248/134|163|41	1736|338	1.93	0.3806624	2	1.10	0.86	1.41	0.85	0.58	1.25
WHS	1	0.362|0.418	271|320|85/37|39|21	676|97	6.73	0.034606	2	0.85	0.52	1.38	1.84	1.00	3.37
PBCS 1+2	7	0.367|0.347	899|997|310/217|239|59	2206|515	1.89	0.3878473	2	1.00	0.81	1.23	0.81	0.59	1.12

Locus	Alleles	Chr	Location	Neighborhood										
rs2067980	A|G	5p12		45018074										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI
STAGE1-3	16	0.160|0.163	6228|2348|240|902|356|32	8816|1290	1.30	0.5228024	2	1.00	0.87	1.14	0.81	0.55	1.18	
NHS	15	0.151|0.172	814|310|17|125|53|5	1141|183	1.89	0.3889462	2	1.11	0.78	1.57	1.95	0.70	5.44	
STAGE1-2	21	0.150|0.170	3805|1374|105|530|213|24	5284|767	1.93	0.3805665	2	1.05	0.88	1.25	1.34	0.84	2.15	
STAGE2	21	0.150|0.170	2991|1064|88|405|160|19	4143|584	0.65	0.7236617	2	1.03	0.84	1.26	1.24	0.73	2.10	
PBCS1	2	0.191|0.251	335|149|22|107|69|13	506|189	6.12	0.0469619	2	1.45	1.01	2.10	1.95	0.93	4.09	
PLCO	16	0.144|0.122	714|241|20|57|16|1	975|74	0.47	0.7902351	2	0.84	0.47	1.50	0.67	0.09	5.21	
WHI	22	0.143|0.134	1761|606|42|221|69|5	2409|295	0.56	0.7552421	2	0.90	0.67	1.20	0.92	0.36	2.35	
STAGE3	1	0.176|0.152	2423|975|135|372|143|8	3533|523	7.54	0.0230685	2	0.93	0.76	1.15	0.38	0.18	0.78	
NHS2	23	0.169|0.149	777|292|42|59|25|0	1111|84										
PBCS2	1	0.190|0.156	1158|519|73|243|93|7	1750|343	4.72	0.0944628	2	0.85	0.66	1.11	0.47	0.21	1.03	
WHS	15	0.152|0.141	488|164|20|70|25|1	672|96	1.17	0.5570229	2	1.10	0.67	1.80	0.38	0.05	2.85	
PBCS 1+2	19	0.190|0.190	1493|667|95|350|162|20	2255|532	0.30	0.8593375	2	1.02	0.83	1.26	0.88	0.54	1.46	

Locus	Alleles	Chr	Location	Neighborhood										
rs4415084	C|T	5p12		44698272										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI
STAGE1-3	17	0.407|0.422	3135|4180|1492|434|623|232	8807|1289	1.24	0.5384788	2	1.06	0.93	1.21	1.09	0.92	1.30	
NHS	6	0.392|0.448	429|513|185|57|87|38	1127|182	3.84	0.1463672	2	1.28	0.89	1.84	1.54	0.98	2.41	
STAGE1-2	20	0.401|0.422	1895|2517|857|264|358|144	5269|766	2.12	0.3462021	2	1.01	0.85	1.20	1.17	0.93	1.46	
STAGE2	20	0.404|0.414	1466|2004|672|207|271|106	4142|584	1.18	0.5530118	2	0.94	0.77	1.14	1.07	0.83	1.38	
PBCS1	1	0.410|0.476	174|249|83|55|88|46	506|189	7.15	0.0279946	2	1.14	0.77	1.70	1.88	1.16	3.04	
PLCO	4	0.408|0.338	339|475|160|28|42|4	974|74	6.50	0.0387306	2	1.08	0.65	1.80	0.30	0.10	0.88	
WHI	15	0.400|0.402	866|1158|385|111|131|53	2409|295	1.52	0.468146	2	0.88	0.67	1.15	1.05	0.74	1.49	
STAGE3	7	0.415|0.422	1240|1666|636|171|265|89	3542|525	1.85	0.3958267	2	1.14	0.93	1.40	1.01	0.76	1.33	
NHS2	20	0.402|0.403	413|517|193|31|43|14	1123|88	0.33	0.8481965	2	1.13	0.70	1.83	0.98	0.51	1.90	
PBCS2	18	0.424|0.413	593|833|328|117|165|58	1754|340	0.37	0.8297638	2	1.01	0.78	1.31	0.92	0.65	1.29	
WHS	3	0.411|0.469	234|316|115|23|57|17	665|97	6.13	0.0466677	2	1.92	1.14	3.23	1.61	0.82	3.17	
PBCS 1+2	12	0.421|0.435	767|1079|410|171|253|103	2256|527	0.95	0.6228454	2	1.04	0.84	1.29	1.15	0.87	1.51	

Locus	Alleles	Chr	Location	Neighborhood										
rs9491859	C|A	6q22.33		128106056 C6orf190										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI
STAGE1-3	18	0.352|0.357	3704|4014|1097|525|602|158	8815|1285	0.93	0.6287521	2	1.06	0.94	1.21	1.02	0.84	1.24	
NHS	14	0.356|0.388	459|551|130|67|90|26	1140|183	1.89	0.3884684	2	1.13	0.81	1.60	1.41	0.86	2.32	
STAGE1-2	13	0.348|0.374	2226|2432|625|301|359|107	5283|767	3.83	0.1474959	2	1.10	0.93	1.30	1.27	0.99	1.61	
STAGE2	16	0.346|0.369	1767|1881|495|234|269|81	4143|584	2.31	0.3146472	2	1.10	0.91	1.33	1.23	0.93	1.63	
PBCS1	12	0.345|0.354	216|231|59|83|78|28	506|189	1.43	0.4897104	2	0.89	0.61	1.28	1.22	0.72	2.06	
PLCO	14	0.333|0.378	437|427|111|29|34|11	975|74	1.21	0.5454536	2	1.17	0.70	1.97	1.50	0.72	3.15	
WHI	13	0.351|0.385	1018|1093|298|110|143|42	2409|295	2.61	0.2712073	2	1.21	0.93	1.57	1.28	0.88	1.88	
STAGE3	2	0.358|0.333	1479|1586|472|224|243|51	3537|518	4.26	0.1189721	2	1.02	0.84	1.24	0.73	0.53	1.01	
NHS2	12	0.368|0.335	459|501|163|35|39|8	1123|82	1.45	0.4846521	2	1.04	0.64	1.67	0.65	0.29	1.43	
PBCS2	8	0.349|0.335	744|779|218|146|160|34	1741|340	1.96	0.3747398	2	1.04	0.81	1.33	0.78	0.52	1.17	
WHS	14	0.363|0.323	276|306|91|43|44|9	673|96	1.71	0.4246288	2	0.92	0.58	1.45	0.60	0.28	1.29	
PBCS 1+2	22	0.348|0.342	959|1006|277|229|238|62	2242|529	0.23	0.8921846	2	0.99	0.81	1.22	0.93	0.68	1.27	

hom OR 95% CI

STAGE1-2	9	0.398|0.363	1509|1968|666|236|272|76	4143|584	5.91	0.0520198	2	0.85	0.71	1.03	0.72	0.55	0.96
STAGE2	7	0.398|0.363	1509|1968|666|236|272|76	4143|584	5.87	0.0530012	2	0.85	0.71	1.03	0.72	0.55	0.96
PBCS1	10	0.409|0.384	176|246|84|67|99|23	506|189	1.47	0.4795539	2	1.03	0.71	1.50	0.75	0.43	1.30
PLCO	10	0.393|0.338	355|474|146|30|38|6	975|74	2.89	0.2362579	2	0.89	0.53	1.47	0.46	0.19	1.14
WHI	4	0.397|0.351	890|1125|394|130|123|42	2409|295	5.46	0.0652059	2	0.75	0.58	0.97	0.74	0.51	1.07
STAGE3	9	0.390|0.413	1315|1676|539|179|257|88	3530|524	1.73	0.4220895	2	1.09	0.89	1.34	1.20	0.91	1.58
NHS2	4	0.382|0.436	428|504|169|31|35|20	1101|86	3.67	0.1595086	2	0.96	0.58	1.58	1.62	0.90	2.93
PBCS2	10	0.399|0.411	621|858|268|111|181|50	1747|342	1.69	0.4302484	2	1.18	0.91	1.53	1.05	0.73	1.51
WHS	18	0.380|0.401	266|314|102|37|41|18	682|96	1.01	0.6032208	2	0.94	0.58	1.52	1.28	0.69	2.36
PBCS 1+2	4	0.402|0.401	795|1103|352|178|279|73	2250|530	2.37	0.3051439	2	1.12	0.91	1.38	0.92	0.68	1.24

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.261|0.267	4211|2933|535|597|424|83	7679|1104	0.54	0.7614929	2	1.02	0.89	1.17	1.10	0.85	1.41
STAGE1-2	12	0.252|0.276	2304|1588|250|308|228|47	4142|583	4.91	0.0857985	2	1.10	0.91	1.33	1.40	0.99	1.97
STAGE2	9	0.252|0.276	2304|1588|250|308|228|47	4142|583	4.11	0.1281451	2	1.10	0.91	1.33	1.40	0.99	1.97
PBCS1	20	0.246|0.250	293|177|36|106|70|12	506|188	0.24	0.8881717	2	1.09	0.76	1.57	1.01	0.50	2.05
PLCO	3	0.230|0.257	569|364|42|44|22|8	975|74	6.90	0.0317027	2	0.81	0.47	1.38	2.57	1.10	6.01
WHI	12	0.263|0.295	1302|949|158|145|126|24	2409|295	2.64	0.2665367	2	1.19	0.93	1.54	1.33	0.84	2.12
STAGE3	19	0.271|0.258	1907|1349|285|290|196|37	3541|523	0.73	0.6934401	2	0.94	0.77	1.14	0.88	0.61	1.27
NHS2	21	0.269|0.286	611|397|100|45|30|9	1108|84	0.25	0.8816344	2	1.04	0.64	1.68	1.21	0.57	2.56
PBCS2	3	0.273|0.244	926|696|131|198|121|23	1753|342	2.88	0.2367498	2	0.81	0.64	1.04	0.83	0.52	1.33
WHS	6	0.268|0.284	370|256|54|47|45|5	680|97	3.79	0.1501837	2	1.41	0.90	2.20	0.65	0.24	1.73
PBCS 1+2	9	0.267|0.245	1219|869|167|303|191|34	2255|528	1.35	0.508083	2	0.90	0.74	1.11	0.85	0.57	1.26

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.395|0.397	3255|4114|1412|474|598|209	8781|1281	0.52	0.7691338	2	1.03	0.90	1.17	1.07	0.89	1.27
NHS	17	0.388|0.412	425|540|170|65|84|33	1135|182	1.40	0.4975555	2	1.02	0.72	1.45	1.30	0.82	2.05
STAGE1-2	22	0.403|0.402	1899|2491|874|270|373|121	5264|764	0.90	0.6388828	2	1.08	0.91	1.28	1.02	0.81	1.29
STAGE2	19	0.407|0.399	1474|1951|704|205|289|88	4129|582	1.86	0.395237	2	1.10	0.91	1.34	0.94	0.72	1.24
PBCS1	9	0.387|0.392	195|230|81|67|96|26	506|189	1.80	0.4057345	2	1.26	0.87	1.83	0.99	0.58	1.69
PLCO	20	0.420|0.411	324|476|169|26|34|13	969|73	0.20	0.9055689	2	0.89	0.52	1.52	0.96	0.48	1.94
WHI	17	0.407|0.396	857|1133|411|105|145|44	2401|294	0.96	0.6199438	2	1.05	0.80	1.37	0.88	0.61	1.28
STAGE3	6	0.383|0.388	1360|1625|538|204|225|88	3523|517	1.87	0.3932758	2	0.95	0.77	1.16	1.14	0.87	1.50
NHS2	9	0.395|0.453	418|522|182|27|40|19	1122|86	2.03	0.3622778	2	1.17	0.71	1.94	1.56	0.84	2.88
PBCS2	17	0.362|0.372	719|778|240|137|149|51	1737|337	0.47	0.7905654	2	1.00	0.78	1.29	1.12	0.79	1.60
WHS	5	0.419|0.383	223|325|116|40|36|18	664|94	3.87	0.1443513	2	0.62	0.38	1.00	0.85	0.46	1.56
PBCS 1+2	17	0.368|0.379	910|1006|321|204|245|77	2237|526	0.48	0.7853455	2	1.08	0.87	1.33	1.06	0.79	1.42

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.324|0.323	4021|3887|916|582|578|126	8824|1286	0.41	0.8148846	2	1.03	0.91	1.16	0.96	0.78	1.19
NHS	12	0.318|0.308	524|509|108|82|88|12	1141|182	2.17	0.3379586	2	1.12	0.81	1.55	0.70	0.37	1.34
STAGE1-2	18	0.325|0.334	2407|2311|562|329|359|76	5280|764	2.49	0.2876695	2	1.14	0.97	1.34	1.02	0.78	1.34
STAGE2	18	0.327|0.343	1883|1802|454|247|271|64	4139|582	1.99	0.3690122	2	1.14	0.95	1.38	1.11	0.82	1.50
PBCS1	21	0.319|0.321	229|228|47|84|86|17	504|187	0.04	0.9808207	2	1.02	0.72	1.47	0.97	0.52	1.80
PLCO	12	0.335|0.365	440|417|118|28|38|8	975|74	1.80	0.4065525	2	1.40	0.84	2.34	1.04	0.46	2.37
WHI	18	0.326|0.346	1097|1051|260|126|134|35	2408|295	0.90	0.6388742	2	1.11	0.86	1.44	1.16	0.78	1.74
STAGE3	12	0.322|0.308	1613|1577|354|252|220|51	3544|523	1.58	0.4537187	2	0.89	0.73	1.08	0.90	0.65	1.25
NHS2	2	0.317|0.259	518|491|109|50|29|8	1118|87	4.31	0.1158951	2	0.61	0.38	0.98	0.77	0.36	1.68

PBCS2	20	0.330|0.333	789|789|189|154|148|40	1767|342	0.32	0.8500638	2	0.98	0.76	1.25	1.09	0.74	1.60
WHS	7	0.310|0.261	306|297|56|48|43|3	659|94	3.48	0.1759103	2	0.90	0.58	1.41	0.33	0.10	1.11
PBCS 1+2	24	0.328|0.327	1019|1016|236|239|233|56	2271|528	0.06	0.97039	2	0.99	0.81	1.21	1.03	0.74	1.43

Locus rs10941679 Alleles A|G Chr 5p12 Location Neighborhood 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.259|0.264	2201|1519|277|378|275|47	3997|700	0.15	0.9256571	2	1.03	0.87	1.23	1.01	0.72	1.41
STAGE3	17	0.259|0.247	1945|1325|250|293|197|30	3520|520	0.95	0.6226459	2	0.99	0.81	1.20	0.82	0.55	1.23
NHS2	13	0.256|0.268	607|415|73|46|28|8	1095|82	1.36	0.5075798	2	0.91	0.56	1.48	1.48	0.67	3.27
PBCS2	4	0.259|0.235	969|667|121|196|130|15	1757|341	2.63	0.2689352	2	0.97	0.76	1.24	0.63	0.36	1.11
WHS	19	0.266|0.273	369|243|56|51|39|7	668|97	0.80	0.6695481	2	1.21	0.77	1.91	0.95	0.41	2.23
PBCS 1+2	21	0.259|0.261	1225|861|148|281|208|32	2234|521	0.24	0.8883381	2	1.04	0.85	1.27	0.95	0.63	1.43

Locus rs7716600 Alleles C|A Chr 5p12 Location Neighborhood 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.220|0.220	5382|3016|434|787|439|65	8832|1291	0.03	0.9860526	2	0.99	0.87	1.13	1.01	0.77	1.33
NHS	2	0.215|0.246	693|401|44|108|60|15	1138|183	6.48	0.0390855	2	0.95	0.68	1.34	2.13	1.14	3.99
STAGE1-2	17	0.216|0.225	3227|1822|226|465|259|43	5275|767	2.65	0.2652186	2	0.96	0.82	1.14	1.29	0.91	1.82
STAGE2	22	0.216|0.218	2534|1421|182|357|199|28	4137|584	0.23	0.8934073	2	0.97	0.80	1.17	1.06	0.69	1.61
PBCS1	3	0.217|0.272	308|173|23|99|77|13	504|189	4.96	0.0837103	2	1.36	0.95	1.95	1.92	0.92	4.01
PLCO	6	0.223|0.169	577|359|37|52|19|3	973|74	4.03	0.13336	2	0.57	0.33	0.99	0.92	0.27	3.15
WHI	21	0.212|0.200	1499|797|111|188|96|11	2407|295	0.59	0.7428576	2	0.96	0.74	1.24	0.79	0.42	1.49
STAGE3	5	0.226|0.214	2155|1196|208|322|180|22	3559|524	1.97	0.3733731	2	1.03	0.84	1.25	0.73	0.46	1.16
NHS2	10	0.229|0.267	676|383|66|46|34|6	1125|86	1.65	0.4377773	2	1.33	0.83	2.10	1.38	0.57	3.37
PBCS2	2	0.223|0.195	1070|586|98|219|111|11	1754|341	3.39	0.1837965	2	0.93	0.73	1.20	0.56	0.29	1.06
WHS	20	0.232|0.232	409|227|44|57|35|5	680|97	0.61	0.7378339	2	1.16	0.73	1.83	0.85	0.32	2.25
PBCS 1+2	15	0.221|0.223	1378|757|121|318|188|24	2256|530	0.80	0.6705684	2	1.06	0.87	1.30	0.88	0.55	1.39

adj_trend

Locus rs17570439 Alleles T|C Chr 1p34.2 Location Neighborhood 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.208|0.231	5507|2905|379|759|465|65	8791|1289	7.54	0.0060235	1	1.15	1.04	1.27	1.33	1.08	1.62
NHS	4	0.204|0.238	718|381|42|107|65|11	1141|183	2.91	0.0879973	1	1.26	0.97	1.65	1.59	0.93	2.72
STAGE1-2	5	0.208|0.233	3285|1798|201|446|283|37	5284|766	5.48	0.0192429	1	1.17	1.03	1.34	1.37	1.05	1.79
STAGE2	8	0.209|0.232	2567|1417|159|339|218|26	4143|583	2.99	0.0836894	1	1.15	0.98	1.34	1.31	0.96	1.78
PBCS1	20	0.210|0.214	310|179|17|113|71|5	506|189	0.06	0.8021576	1	0.96	0.71	1.31	0.92	0.50	1.71
PLCO	15	0.220|0.243	599|323|53|40|32|2	975|74	0.31	0.5781529	1	1.12	0.75	1.65	1.25	0.57	2.74
WHI	7	0.206|0.238	1501|825|83|171|106|17	2409|294	3.52	0.060739	1	1.22	0.99	1.50	1.49	0.98	2.25
STAGE3	3	0.209|0.228	2222|1108|178|313|182|28	3508|523	1.80	0.1796915	1	1.11	0.95	1.30	1.24	0.91	1.68
NHS2	11	0.208|0.235	694|332|60|51|28|6	1086|85	0.47	0.4912781	1	1.13	0.79	1.62	1.28	0.63	2.62
PBCS2	15	0.208|0.215	1111|557|86|211|115|16	1754|342	0.14	0.7042992	1	1.04	0.85	1.27	1.08	0.73	1.60
WHS	5	0.212|0.266	417|219|32|51|39|6	668|96	2.39	0.1217714	1	1.32	0.93	1.87	1.73	0.86	3.49
PBCS 1+2	16	0.208|0.215	1421|735|103|324|186|21	2259|531	0.13	0.7235883	1	1.03	0.87	1.22	1.06	0.76	1.48

hom OR 95% CI

STAGE2	7	0.230|0.254	2444|1493|206|319|233|32	4143|584	3.41	0.0648422	1	1.15	0.99	1.33	1.32	0.98	1.77
PBCS1	22	0.226|0.235	299|185|22|106|77|6	506|189	-	0.9998322	1	1.00	0.74	1.34	1.00	0.55	1.81
PLCO	16	0.236|0.264	578|334|63|38|33|3	975|74	0.31	0.579946	1	1.11	0.76	1.63	1.24	0.58	2.65
WHI	6	0.229|0.264	1421|875|113|160|114|21	2409|295	3.77	0.05212	1	1.22	1.00	1.48	1.48	1.00	2.20
STAGE3	8	0.226|0.241	2160|1196|207|302|188|32	3563|522	1.15	0.2831634	1	1.09	0.93	1.26	1.18	0.87	1.60
NHS2	23	0.228|0.229	687|372|72|52|24|7	1131|83	0.01	0.9404369	1	0.99	0.69	1.42	0.97	0.47	2.01
PBCS2	20	0.226|0.230	1063|591|102|202|124|17	1756|343	0.04	0.8385828	1	1.02	0.84	1.24	1.04	0.71	1.53
WHS	1	0.221|0.292	410|233|33|48|40|8	676|96	4.12	0.0424283	1	1.42	1.01	2.00	2.02	1.02	4.01
PBCS 1+2	17	0.226|0.232	1362|776|124|308|200|23	2262|531	0.10	0.7481524	1	1.03	0.87	1.21	1.05	0.76	1.45

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.034|0.024	8222|583|10|1229|59|2	8815|1290	6.57	0.0103534	1	0.71	0.54	0.92	0.50	0.29	0.85
NHS	9	0.034|0.022	1063|78|0|175|8|0	1141|183	1.78	0.1822792	1	0.60	0.29	1.28	0.36	0.08	1.63
STAGE1-2	3	0.034|0.022	4926|356|2|733|34|0	5284|767	6.33	0.0118996	1	0.63	0.44	0.91	0.40	0.19	0.82
STAGE2	5	0.034|0.022	3863|278|2|558|26|0	4143|584	4.55	0.0329972	1	0.64	0.42	0.97	0.41	0.18	0.94
PBCS1	5	0.033|0.021	473|33|0|181|8|0	506|189	1.57	0.2101808	1	0.60	0.27	1.34	0.36	0.07	1.80
PLCO	8	0.036|0.020	906|68|1|71|3|0	975|74	1.02	0.3115957	1	0.55	0.17	1.79	0.30	0.03	3.19
WHI	12	0.034|0.025	2245|163|1|280|15|0	2409|295	1.51	0.2193102	1	0.71	0.41	1.23	0.51	0.17	1.50
STAGE3	9	0.034|0.028	3296|227|8|496|25|2	3531|523	1.07	0.3004465	1	0.81	0.55	1.20	0.66	0.30	1.44
NHS2	24	0.039|0.000	1029|77|5|84|0|0	1111|84									
PBCS2	23	0.032|0.033	1648|112|1|322|21|1	1761|344	0.02	0.8760329	1	1.04	0.66	1.64	1.08	0.43	2.68
WHS	20	0.032|0.032	619|38|2|90|4|1	659|95	0.07	0.7907514	1	0.89	0.38	2.11	0.79	0.14	4.44
PBCS 1+2	9	0.032|0.029	2121|145|1|503|29|1	2267|533	0.33	0.5677343	1	0.89	0.60	1.33	0.79	0.36	1.76

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.258|0.234	4826|3425|560|759|457|74	8811|1290	5.25	0.0219289	1	0.89	0.81	0.98	0.79	0.65	0.97
NHS	6	0.256|0.219	634|430|77|110|66|7	1141|183	2.18	0.1395973	1	0.82	0.63	1.07	0.67	0.39	1.14
STAGE1-2	1	0.263|0.226	2851|2086|344|465|258|44	5281|767	8.49	0.0035757	1	0.82	0.72	0.94	0.68	0.52	0.88
STAGE2	2	0.264|0.228	2217|1656|267|355|192|37	4140|584	6.34	0.0118286	1	0.82	0.71	0.96	0.68	0.50	0.92
PBCS1	8	0.247|0.228	284|193|28|115|62|12	505|189	0.74	0.3883889	1	0.88	0.66	1.17	0.78	0.44	1.38
PLCO	17	0.263|0.243	526|385|64|45|22|7	975|74	0.28	0.5957946	1	0.90	0.60	1.34	0.81	0.36	1.79
WHI	1	0.270|0.219	1272|973|163|181|99|15	2408|295	7.32	0.0068124	1	0.75	0.61	0.92	0.56	0.37	0.85
STAGE3	24	0.251|0.248	1975|1339|216|294|199|30	3530|523	0.00	0.9612032	1	1.00	0.86	1.16	0.99	0.73	1.35
NHS2	12	0.266|0.244	598|438|77|47|33|4	1113|84	0.46	0.4986024	1	0.88	0.61	1.27	0.78	0.37	1.62
PBCS2	9	0.245|0.265	993|643|105|185|133|24	1741|342	1.06	0.3022317	1	1.10	0.92	1.33	1.22	0.84	1.77
WHS	4	0.241|0.191	384|258|34|62|33|2	676|97	2.50	0.1135154	1	0.73	0.49	1.08	0.53	0.24	1.17
PBCS 1+2	19	0.245|0.251	1277|836|133|300|195|36	2246|531	0.09	0.7610009	1	1.02	0.88	1.20	1.05	0.77	1.43

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.094|0.108	7261|1521|74|1029|245|17	8856|1291	4.94	0.0262981	1	1.17	1.02	1.34	1.36	1.04	1.79
NHS	1	0.085|0.117	951|185|5|145|33|5	1141|183	4.72	0.0298151	1	1.48	1.04	2.11	2.19	1.07	4.45
STAGE1-2	6	0.089|0.108	4388|849|47|612|144|11	5284|767	5.41	0.0200633	1	1.23	1.03	1.48	1.52	1.07	2.18
STAGE2	15	0.090|0.105	3437|664|42|467|111|6	4143|584	2.06	0.1516996	1	1.16	0.95	1.43	1.35	0.89	2.04
PBCS1	14	0.094|0.101	417|83|6|152|36|1	506|189	0.17	0.6845841	1	1.09	0.73	1.63	1.18	0.53	2.65
PLCO	2	0.077|0.122	832|135|8|56|18|0	975|74	3.60	0.0576194	1	1.65	0.98	2.79	2.73	0.96	7.79
WHI	16	0.094|0.107	1982|403|24|236|55|4	2409|295	0.82	0.3649546	1	1.14	0.86	1.51	1.30	0.74	2.28
STAGE3	14	0.102|0.108	2873|673|27|417|101|6	3573|524	0.54	0.4619844	1	1.08	0.87	1.34	1.18	0.76	1.81
NHS2	7	0.103|0.137	905|207|12|65|15|4	1124|84	1.76	0.1846575	1	1.36	0.86	2.14	1.85	0.74	4.59

PBCS2	21	0.104|0.105	1412|338|15|273|68|2	1765|343	0.03	0.8671837	1	1.02	0.78	1.34	1.05	0.61	1.81
WHS	23	0.094|0.093	556|128|0|79|18|0	684|97	0.03	0.8679701	1	1.05	0.60	1.82	1.10	0.36	3.32
PBCS 1+2	12	0.102|0.103	1829|420|21|425|104|3	2270|532	0.17	0.6781002	1	1.05	0.84	1.31	1.10	0.70	1.72

Locus rs17740709 Alleles A|G Chr 12q21.31 Location Neighborhood 81947471 TMT2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.219|0.210	5354|3028|417|811|412|65	8799|1288	2.66	0.1031434	1	0.92	0.83	1.02	0.84	0.69	1.04
NHS	5	0.218|0.180	691|402|48|121|58|4	1141|183	2.49	0.1142245	1	0.79	0.59	1.06	0.63	0.35	1.12
STAGE1-2	19	0.218|0.213	3200|1869|215|481|246|40	5284|767	0.76	0.3821518	1	0.94	0.82	1.08	0.89	0.67	1.16
STAGE2	21	0.217|0.223	2509|1467|167|360|188|36	4143|584	0.01	0.9050645	1	0.99	0.85	1.16	0.98	0.72	1.34
PBCS1	13	0.242|0.254	282|203|21|106|70|13	506|189	0.30	0.5864398	1	1.08	0.81	1.44	1.17	0.66	2.08
PLCO	21	0.214|0.209	603|326|46|48|21|5	975|74	0.05	0.8150004	1	0.95	0.63	1.44	0.91	0.40	2.07
WHI	21	0.215|0.212	1466|851|92|187|91|17	2409|295	0.08	0.7738678	1	0.97	0.78	1.20	0.94	0.61	1.44
STAGE3	4	0.222|0.207	2154|1160|202|330|166|25	3516|521	1.73	0.1878088	1	0.90	0.77	1.05	0.81	0.59	1.11
NHS2	20	0.210|0.204	694|349|56|53|23|5	1099|81	0.02	0.8837667	1	0.97	0.66	1.43	0.94	0.43	2.06
PBCS2	7	0.234|0.212	1042|597|112|215|109|18	1751|342	1.43	0.231633	1	0.89	0.73	1.08	0.79	0.53	1.16
WHS	12	0.212|0.194	418|214|34|62|34|2	666|98	0.58	0.4460914	1	0.86	0.59	1.26	0.75	0.35	1.59
PBCS 1+2	7	0.236|0.227	1324|799|133|321|179|31	2256|531	0.79	0.3728421	1	0.93	0.79	1.09	0.86	0.63	1.19

Locus rs998592 Alleles G|A Chr 16p13.13 Location Neighborhood 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.425|0.404	2956|4239|1625|446|647|199	8820|1292	2.21	0.1374669	1	0.94	0.86	1.02	0.88	0.74	1.04
NHS	17	0.424|0.434	405|502|232|54|99|30	1139|183	0.17	0.6780117	1	1.05	0.84	1.30	1.10	0.71	1.69
STAGE1-2	8	0.436|0.403	1716|2524|1042|264|388|115	5282|767	4.31	0.0379763	1	0.89	0.80	0.99	0.79	0.64	0.99
STAGE2	1	0.440|0.393	1311|2022|810|210|289|85	4143|584	6.82	0.0090144	1	0.84	0.74	0.96	0.71	0.55	0.92
PBCS1	4	0.415|0.368	186|220|100|74|91|24	506|189	1.73	0.188504	1	0.85	0.67	1.08	0.72	0.45	1.17
PLCO	20	0.419|0.426	324|485|166|25|35|14	975|74	0.15	0.6943144	1	1.07	0.75	1.51	1.14	0.57	2.27
WHI	2	0.450|0.403	729|1192|488|100|152|43	2409|295	4.98	0.0256018	1	0.82	0.69	0.98	0.67	0.47	0.95
STAGE3	23	0.407|0.407	1240|1715|584|182|260|84	3539|526	0.03	0.8696393	1	1.01	0.88	1.16	1.02	0.78	1.34
NHS2	1	0.417|0.482	378|542|193|22|43|19	1113|84	3.15	0.0758426	1	1.33	0.97	1.83	1.78	0.94	3.35
PBCS2	19	0.400|0.397	625|849|274|122|171|51	1748|344	0.04	0.8368387	1	0.98	0.83	1.16	0.97	0.69	1.35
WHS	13	0.412|0.378	237|324|117|38|46|14	678|98	0.41	0.5228361	1	0.90	0.66	1.23	0.82	0.44	1.52
PBCS 1+2	5	0.403|0.386	811|1069|373|196|261|75	2253|532	0.87	0.3519726	1	0.94	0.82	1.08	0.88	0.67	1.16

Locus rs2391406 Alleles T|G Chr 13q33.3 Location Neighborhood 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.372|0.360	3513|4015|1265|511|627|150	8793|1288	2.14	0.1431684	1	0.94	0.86	1.02	0.88	0.74	1.05
NHS	15	0.371|0.358	452|529|159|72|91|20	1140|183	0.20	0.6542411	1	0.95	0.75	1.20	0.90	0.57	1.43
STAGE1-2	15	0.375|0.354	2110|2378|788|308|373|85	5276|766	2.43	0.1190468	1	0.91	0.82	1.02	0.84	0.67	1.05
STAGE2	12	0.376|0.353	1658|1849|629|236|282|65	4136|583	2.45	0.1175285	1	0.90	0.79	1.03	0.81	0.63	1.05
PBCS1	10	0.387|0.362	195|230|81|78|84|26	506|188	0.47	0.4911277	1	0.92	0.72	1.17	0.84	0.51	1.38
PLCO	12	0.376|0.345	398|416|157|29|39|6	971|74	0.48	0.4887403	1	0.89	0.63	1.25	0.78	0.39	1.57

UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI
STAGE1-3	9	0.374|0.360	3426|4157|1207/533|588|171	8790|1292	1.97	0.1606069	1	0.94	0.86	1.03	0.88	0.74	1.05
NHS	16	0.382|0.374	429|553|159/73|83|27	1141|183	0.18	0.6684325	1	0.95	0.75	1.20	0.90	0.57	1.44
STAGE1-2	13	0.383|0.362	1953|2611|714/311|356|100	5278|767	2.80	0.0944011	1	0.91	0.81	1.02	0.82	0.65	1.03
STAGE2	9	0.383|0.359	1524|2058|555/238|273|73	4137|584	2.96	0.0853517	1	0.89	0.78	1.02	0.79	0.61	1.04
PBCS1	16	0.375|0.381	193|244|67/74|86|29	504|189	0.14	0.7068417	1	1.05	0.82	1.35	1.10	0.67	1.81
PLCO	18	0.371|0.358	371|484|120/30|35|9	975|74	0.28	0.5985257	1	0.91	0.63	1.31	0.82	0.39	1.72
WHI	3	0.385|0.342	871|1215|320/124|140|31	2406|295	4.87	0.0272777	1	0.81	0.67	0.98	0.66	0.45	0.95
STAGE3	20	0.361|0.356	1473|1545|494/222|232|71	3512|525	0.09	0.7672934	1	0.98	0.86	1.12	0.96	0.74	1.25
NHS2	10	0.364|0.341	446|495|150/41|30|14	1091|85	0.51	0.4742972	1	0.89	0.64	1.23	0.79	0.41	1.51
PBCS2	17	0.359|0.366	732|784|238/141|153|49	1754|343	0.11	0.7403842	1	1.03	0.87	1.22	1.06	0.76	1.48
WHS	11	0.358|0.335	295|266|106/40|49|8	667|97	0.71	0.4010576	1	0.88	0.64	1.19	0.77	0.42	1.42
PBCS 1+2	11	0.362|0.371	925|1029|304/215|239|78	2258|532	0.17	0.6777764	1	1.03	0.90	1.18	1.06	0.80	1.40

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI
STAGE1-3	10	0.451|0.437	2683|4344|1810/399|650|238	8837|1287	1.89	0.1690524	1	0.94	0.87	1.03	0.89	0.75	1.05
NHS	10	0.470|0.432	312|585|244/55|98|30	1141|183	1.63	0.2013656	1	0.86	0.69	1.08	0.74	0.47	1.17
STAGE1-2	10	0.454|0.428	1574|2618|1092/239|399|129	5284|767	4.12	0.0423965	1	0.89	0.80	1.00	0.80	0.64	0.99
STAGE2	10	0.450|0.427	1262|2033|848/184|301|99	4143|584	2.58	0.108204	1	0.90	0.79	1.02	0.81	0.63	1.05
PBCS1	6	0.483|0.439	138|247|121/57|98|34	506|189	1.56	0.2120286	1	0.86	0.67	1.09	0.73	0.45	1.19
PLCO	23	0.449|0.453	298|478|199/22|37|15	975|74	0.01	0.9090132	1	1.02	0.73	1.43	1.04	0.53	2.05
WHI	10	0.443|0.408	755|1175|479/99|151|45	2409|295	2.20	0.1381463	1	0.88	0.74	1.04	0.77	0.54	1.09
STAGE3	22	0.445|0.450	1109|1730|719/161|251|109	3558|521	0.06	0.8111235	1	1.02	0.89	1.16	1.03	0.79	1.34
NHS2	2	0.440|0.506	363|535|227/19|46|20	1125|85	2.73	0.0983533	1	1.30	0.95	1.76	1.68	0.91	3.10
PBCS2	8	0.457|0.432	518|863|368/115|156|69	1749|340	1.27	0.2599775	1	0.91	0.77	1.07	0.83	0.59	1.15
WHS	10	0.424|0.464	228|332|124/27|49|20	684|96	0.80	0.372286	1	1.15	0.85	1.56	1.32	0.72	2.44
PBCS 1+2	2	0.463|0.436	656|1106|488/171|254|103	2250|528	2.94	0.0863643	1	0.89	0.78	1.02	0.79	0.60	1.03

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI
STAGE1-3	11	0.156|0.162	6264|2378|185/908|352|33	8827|1293	1.53	0.2166686	1	1.08	0.96	1.21	1.16	0.92	1.46
NHS	20	0.159|0.164	807|306|28/129|48|6	1141|183	0.05	0.8207057	1	1.04	0.77	1.40	1.07	0.59	1.95
STAGE1-2	7	0.155|0.175	3739|1443|99/522|222|23	5281|767	5.04	0.0248352	1	1.18	1.02	1.37	1.40	1.04	1.88
STAGE2	3	0.154|0.178	2932|1137|71/393|174|17	4140|584	6.08	0.0136888	1	1.24	1.04	1.47	1.53	1.09	2.16
PBCS1	17	0.138|0.148	373|123|8/134|54|1	504|189	0.13	0.7188878	1	1.07	0.75	1.52	1.14	0.56	2.30
PLCO	1	0.156|0.230	688|270|17/41|32|1	975|74	5.55	0.0184886	1	1.67	1.08	2.57	2.78	1.17	6.58
WHI	4	0.154|0.186	1704|664|40/200|80|15	2408|295	4.59	0.0321699	1	1.28	1.02	1.61	1.64	1.04	2.58
STAGE3	12	0.156|0.143	2525|935|85/386|130|10	3545|526	0.74	0.389135	1	0.92	0.76	1.11	0.85	0.59	1.23
NHS2	19	0.167|0.161	777|314|30/61|24|2	1121|87	0.09	0.7684207	1	0.94	0.62	1.43	0.88	0.38	2.05
PBCS2	10	0.148|0.136	1266|440|38/254|81|6	1744|341	0.68	0.4099651	1	0.90	0.71	1.15	0.82	0.51	1.32
WHS	16	0.158|0.148	482|181|17/71|25|2	680|98	0.16	0.6917343	1	0.92	0.60	1.40	0.84	0.36	1.96

hom OR 95% CI

PBCS1	11	0.242|0.228	291|185|30|115|62|12	506|189	0.45	0.502569	1	0.91	0.68	1.20	0.82	0.47	1.45
PLCO	6	0.238|0.189	576|334|65|48|24|2	975|74	1.88	0.1704928	1	0.75	0.49	1.15	0.56	0.24	1.32
WHI	19	0.235|0.224	1416|854|139|174|110|11	2409|295	0.28	0.599862	1	0.95	0.77	1.16	0.90	0.59	1.35
STAGE3	21	0.237|0.235	2075|1237|218|302|195|25	3530|522	0.07	0.7932455	1	0.98	0.84	1.14	0.96	0.71	1.31
NHS2	14	0.234|0.212	664|362|77|52|30|3	1103|85	0.37	0.545089	1	0.89	0.62	1.29	0.80	0.38	1.67
PBCS2	22	0.236|0.234	1016|637|94|198|125|17	1747|340	0.03	0.8679555	1	0.98	0.81	1.20	0.97	0.65	1.43
WHS	17	0.244|0.258	395|238|47|52|40|5	680|97	0.13	0.7154275	1	1.07	0.76	1.50	1.14	0.57	2.25
PBCS 1+2	13	0.237|0.232	1306|819|124|312|187|29	2249|528	0.16	0.6927455	1	0.97	0.82	1.14	0.94	0.68	1.29

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.407|0.422	3135|4180|1492|434|623|232	8807|1289	1.18	0.2777338	1	1.05	0.96	1.14	1.10	0.93	1.30
NHS	3	0.392|0.448	429|513|185|57|87|38	1127|182	3.83	0.0502085	1	1.25	1.00	1.55	1.55	1.00	2.41
STAGE1-2	17	0.401|0.422	1895|2517|857|264|358|144	5269|766	1.39	0.2388969	1	1.07	0.96	1.19	1.14	0.92	1.42
STAGE2	19	0.404|0.414	1466|2004|672|207|271|106	4142|584	0.06	0.803953	1	1.02	0.89	1.15	1.03	0.80	1.33
PBCS1	2	0.410|0.476	174|249|83|55|88|46	506|189	5.83	0.0157429	1	1.35	1.06	1.72	1.82	1.12	2.95
PLCO	3	0.408|0.338	339|475|160|28|42|4	974|74	2.91	0.0881889	1	0.73	0.51	1.05	0.54	0.26	1.11
WHI	23	0.400|0.402	866|1158|385|111|131|53	2409|295	0.00	0.9690943	1	1.00	0.84	1.19	0.99	0.70	1.41
STAGE3	19	0.415|0.422	1240|1666|636|171|265|89	3542|525	0.12	0.7261584	1	1.02	0.90	1.17	1.05	0.81	1.36
NHS2	21	0.402|0.403	413|517|193|31|43|14	1123|88	0.01	0.9179916	1	1.02	0.75	1.38	1.03	0.56	1.91
PBCS2	14	0.424|0.413	593|833|328|117|165|58	1754|340	0.17	0.6802424	1	0.97	0.82	1.14	0.93	0.67	1.30
WHS	3	0.411|0.469	234|316|115|23|57|17	665|97	3.03	0.0815463	1	1.32	0.97	1.79	1.73	0.93	3.22
PBCS 1+2	6	0.421|0.435	767|1079|410|171|253|103	2256|527	0.86	0.3527902	1	1.07	0.93	1.22	1.14	0.87	1.49

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.384|0.370	3358|3974|1348|513|560|186	8680|1259	0.91	0.3395791	1	0.96	0.88	1.05	0.92	0.77	1.09
NHS	12	0.399|0.369	403|541|177|77|68|31	1121|176	1.25	0.2633217	1	0.88	0.69	1.11	0.77	0.48	1.22
STAGE1-2	14	0.400|0.376	1731|2149|796|227|246|88	4676|561	2.64	0.1044938	1	0.90	0.79	1.02	0.81	0.63	1.04
STAGE2	16	0.400|0.379	1328|1608|619|150|178|57	3555|385	1.44	0.2296102	1	0.91	0.78	1.06	0.83	0.62	1.12
PLCO	19	0.378|0.396	379|431|146|26|35|11	956|72	0.24	0.6274624	1	1.09	0.77	1.54	1.18	0.59	2.36
WHI	13	0.409|0.387	857|1064|430|111|131|46	2351|288	0.94	0.332011	1	0.92	0.77	1.09	0.84	0.60	1.19
STAGE3	11	0.366|0.382	1434|1610|490|203|238|80	3534|521	0.89	0.3444627	1	1.07	0.93	1.22	1.14	0.87	1.49
NHS2	4	0.366|0.419	457|508|157|32|36|18	1122|86	2.17	0.1405261	1	1.26	0.93	1.73	1.60	0.86	2.98
PBCS2	16	0.368|0.362	706|782|248|134|163|41	1736|338	0.13	0.7201087	1	0.97	0.82	1.15	0.94	0.67	1.32
WHS	7	0.362|0.418	271|320|85|37|39|21	676|97	1.98	0.1597983	1	1.25	0.91	1.72	1.57	0.84	2.94
PBCS 1+2	4	0.367|0.347	899|997|310|217|239|59	2206|515	1.00	0.3172963	1	0.93	0.81	1.07	0.86	0.65	1.15

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.395|0.387	2822|3643|1205|415|528|164	7670|1107	0.81	0.3686924	1	0.96	0.87	1.05	0.92	0.76	1.11
STAGE1-2	4	0.398|0.363	1509|1968|666|236|272|76	4143|584	6.14	0.0132085	1	0.85	0.75	0.97	0.72	0.56	0.94
STAGE2	4	0.398|0.363	1509|1968|666|236|272|76	4143|584	5.88	0.0153351	1	0.85	0.75	0.97	0.72	0.56	0.94
PBCS1	9	0.409|0.384	176|246|84|67|99|23	506|189	0.62	0.4306197	1	0.90	0.70	1.16	0.82	0.49	1.35
PLCO	5	0.393|0.338	355|474|146|30|38|6	975|74	2.40	0.121703	1	0.75	0.52	1.08	0.57	0.27	1.18
WHI	5	0.397|0.351	890|1125|394|130|123|42	2409|295	4.26	0.0390439	1	0.83	0.70	0.99	0.69	0.48	0.98
STAGE3	5	0.390|0.413	1315|1676|539|179|257|88	3530|524	1.72	0.1892199	1	1.09	0.96	1.25	1.20	0.92	1.56
NHS2	6	0.382|0.436	428|504|169|31|35|20	1101|86	1.80	0.1800032	1	1.23	0.91	1.68	1.52	0.82	2.82
PBCS2	12	0.399|0.411	621|858|268|111|181|50	1747|342	0.36	0.5493755	1	1.05	0.89	1.25	1.11	0.79	1.56
WHS	14	0.380|0.401	266|314|102|37|41|18	682|96	0.32	0.5688034	1	1.09	0.80	1.49	1.20	0.65	2.21
PBCS 1+2	21	0.402|0.401	795|1103|352|178|279|73	2250|530	0.01	0.9039051	1	0.99	0.86	1.14	0.98	0.74	1.30

Locus	Alleles	Chr	Location	Neighborhood											
rs12622050	G|A	2q11.2		100945886 NPAS2											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI
STAGE1-3	16	0.225|0.225	5271|3090|432|779|439|70	8793|1288	0.62	0.4327301	1	0.96	0.87	1.06	0.92	0.75	0.75	1.13	
NHS	7	0.220|0.191	694|392|55|122|52|9	1141|183	1.82	0.1775736	1	0.83	0.62	1.09	0.68	0.39	1.19		
STAGE1-2	9	0.220|0.202	3182|1875|227|492|240|35	5284|767	4.22	0.0400652	1	0.87	0.76	0.99	0.75	0.57	0.99		
STAGE2	11	0.220|0.205	2488|1483|172|370|188|26	4143|584	2.54	0.1110967	1	0.88	0.75	1.03	0.77	0.56	1.06		
PBCS1	7	0.244|0.222	284|197|25|114|66|9	506|189	0.77	0.3801018	1	0.88	0.66	1.17	0.77	0.43	1.38		
PLCO	10	0.229|0.203	577|350|48|47|24|3	975|74	0.70	0.4027069	1	0.84	0.55	1.27	0.70	0.30	1.62		
WHI	14	0.213|0.198	1476|838|95|192|89|14	2409|295	0.92	0.3369122	1	0.90	0.72	1.12	0.81	0.52	1.25		
STAGE3	6	0.232|0.258	2090|1217|205|287|199|35	3512|521	1.53	0.2164965	1	1.10	0.95	1.28	1.21	0.90	1.63		
NHS2	22	0.200|0.204	712|332|53|51|27|3	1097|81	0.01	0.9329007	1	1.02	0.69	1.50	1.03	0.48	2.25		
PBCS2	5	0.252|0.278	980|644|117|177|141|25	1741|343	1.96	0.1618802	1	1.14	0.95	1.37	1.30	0.90	1.87		
WHS	24	0.231|0.232	398|241|35|59|31|7	674|97	0.00	0.9948993	1	1.00	0.70	1.43	1.00	0.49	2.05		
PBCS 1+2	8	0.250|0.258	1263|839|142|291|207|34	2244|532	0.58	0.4465536	1	1.06	0.91	1.24	1.13	0.83	1.54		

Locus	Alleles	Chr	Location	Neighborhood											
rs11249433	T|C	1p11.2		120982136 LOC647121											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI
STAGE1-3	17	0.395|0.397	3255|4114|1412|474|598|209	8781|1281	0.52	0.4696763	1	1.03	0.95	1.12	1.06	0.90	1.26		
NHS	14	0.388|0.412	425|540|170|65|84|33	1135|182	0.91	0.3395834	1	1.12	0.89	1.40	1.25	0.79	1.96		
STAGE1-2	22	0.403|0.402	1899|2491|874|270|373|121	5264|764	0.16	0.6879328	1	1.02	0.92	1.14	1.05	0.84	1.31		
STAGE2	23	0.407|0.399	1474|1951|704|205|289|88	4129|582	0.00	0.9470428	1	1.00	0.88	1.13	0.99	0.77	1.28		
PBCS1	15	0.387|0.392	195|230|81|67|96|26	506|189	0.15	0.6991835	1	1.05	0.82	1.34	1.10	0.67	1.81		
PLCO	22	0.420|0.411	324|476|169|26|34|13	969|73	0.04	0.842809	1	0.97	0.68	1.37	0.93	0.47	1.87		
WHI	20	0.407|0.396	857|1133|411|105|145|44	2401|294	0.20	0.651227	1	0.96	0.81	1.14	0.92	0.65	1.31		
STAGE3	17	0.383|0.388	1360|1625|538|204|225|88	3523|517	0.37	0.5419589	1	1.04	0.91	1.19	1.09	0.83	1.42		
NHS2	5	0.395|0.453	418|522|182|27|40|19	1122|86	1.89	0.1689012	1	1.24	0.91	1.69	1.54	0.83	2.86		
PBCS2	13	0.362|0.372	719|778|240|137|149|51	1737|337	0.27	0.602281	1	1.05	0.88	1.24	1.09	0.78	1.53		
WHS	9	0.419|0.383	223|325|116|40|36|18	664|94	0.96	0.3275381	1	0.86	0.63	1.17	0.73	0.39	1.37		
PBCS 1+2	10	0.368|0.379	910|1006|321|204|245|77	2237|526	0.30	0.5847103	1	1.04	0.91	1.19	1.08	0.82	1.42		

Locus	Alleles	Chr	Location	Neighborhood											
rs724244	C|T	3p24.1		27217157 NEK10											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI
STAGE1-3	18	0.261|0.267	4211|2933|535|597|424|83	7679|1104	0.47	0.4944711	1	1.04	0.94	1.15	1.07	0.88	1.32		
STAGE1-2	11	0.252|0.276	2304|1588|250|308|228|47	4142|583	3.79	0.0515821	1	1.15	0.99	1.32	1.31	0.99	1.74		
STAGE2	6	0.252|0.276	2304|1588|250|308|228|47	4142|583	3.55	0.059715	1	1.15	0.99	1.32	1.31	0.99	1.74		
PBCS1	18	0.246|0.250	293|177|36|106|70|12	506|188	0.11	0.7456457	1	1.05	0.79	1.38	1.10	0.63	1.90		
PLCO	9	0.230|0.257	569|364|42|44|22|8	975|74	0.81	0.3694829	1	1.19	0.80	1.77	1.42	0.64	3.14		
WHI	8	0.263|0.295	1302|949|158|145|126|24	2409|295	2.62	0.1057963	1	1.17	0.97	1.42	1.37	0.93	2.01		

hom OR 95% CI

STAGE1-2	23	0.143|0.143	3887|1281|116|569|176|22	5284|767	0.01	0.9400159	1	0.99	0.85	1.16	0.99	0.73	1.35
STAGE2	20	0.140|0.140	3069|985|89|442|121|21	4143|584	0.02	0.8956592	1	0.99	0.83	1.18	0.98	0.68	1.40
PBCS1	12	0.153|0.135	364|129|13|142|43|4	506|189	0.35	0.5558286	1	0.90	0.64	1.27	0.81	0.41	1.61
PLCO	11	0.132|0.162	738|216|21|57|10|7	975|74	0.67	0.4141419	1	1.20	0.77	1.87	1.44	0.59	3.49
WHI	22	0.141|0.137	1783|572|54|222|65|8	2409|295	0.04	0.8328894	1	0.97	0.76	1.25	0.95	0.58	1.55
STAGE3	10	0.127|0.115	2733|758|72|415|99|11	3563|525	0.93	0.3358854	1	0.91	0.74	1.11	0.82	0.55	1.23
NHS2	15	0.126|0.138	869|243|21|67|16|4	1133|87	0.22	0.6411794	1	1.11	0.72	1.72	1.23	0.51	2.96
PBCS2	2	0.124|0.102	1344|368|32|276|62|4	1744|342	2.49	0.1142295	1	0.81	0.62	1.05	0.65	0.38	1.11
WHS	18	0.135|0.141	520|147|19|72|21|3	686|96	0.11	0.739876	1	1.07	0.70	1.64	1.15	0.50	2.68
PBCS 1+2	1	0.130|0.113	1706|494|45|418|104|8	2245|530	3.04	0.0813036	1	0.83	0.67	1.02	0.69	0.45	1.05

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.160|0.163	6228|2348|240|902|356|32	8816|1290	0.36	0.5466021	1	0.97	0.86	1.08	0.93	0.74	1.17
NHS	13	0.151|0.172	814|310|17|125|53|5	1141|183	1.15	0.2838007	1	1.18	0.87	1.61	1.40	0.76	2.58
STAGE1-2	18	0.150|0.170	3805|1374|105|530|213|24	5284|767	1.08	0.2979086	1	1.08	0.93	1.25	1.17	0.87	1.57
STAGE2	18	0.150|0.170	2991|1064|88|405|160|19	4143|584	0.38	0.5356781	1	1.05	0.89	1.25	1.11	0.79	1.56
PBCS1	1	0.191|0.251	335|149|22|107|69|13	506|189	6.11	0.0134493	1	1.42	1.07	1.89	2.03	1.15	3.57
PLCO	13	0.144|0.122	714|241|20|57|16|1	975|74	0.47	0.4917397	1	0.83	0.50	1.40	0.70	0.25	1.96
WHI	17	0.143|0.134	1761|606|42|221|69|5	2409|295	0.51	0.4772662	1	0.91	0.71	1.18	0.83	0.50	1.38
STAGE3	1	0.176|0.152	2423|975|135|372|143|8	3533|523	4.27	0.0387552	1	0.83	0.69	0.99	0.69	0.48	0.98
NHS2	13	0.169|0.149	777|292|42|59|25|0	1111|84	0.45	0.5038119	1	0.86	0.56	1.33	0.75	0.32	1.76
PBCS2	1	0.190|0.156	1158|519|73|243|93|7	1750|343	4.11	0.0425914	1	0.80	0.64	0.99	0.63	0.41	0.99
WHS	21	0.152|0.141	488|164|20|70|25|1	672|96	0.06	0.8117772	1	0.95	0.62	1.46	0.90	0.38	2.13
PBCS 1+2	20	0.190|0.190	1493|667|95|350|162|20	2255|532	0.02	0.8892361	1	0.99	0.83	1.17	0.98	0.70	1.37

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.352|0.357	3704|4014|1097|525|602|158	8815|1285	0.34	0.5605864	1	1.03	0.94	1.12	1.05	0.88	1.26
NHS	8	0.356|0.388	459|551|130|67|90|26	1140|183	1.78	0.1815687	1	1.17	0.93	1.49	1.38	0.86	2.21
STAGE1-2	12	0.348|0.374	2226|2432|625|301|359|107	5283|767	3.75	0.0528488	1	1.12	1.00	1.25	1.25	1.00	1.57
STAGE2	13	0.346|0.369	1767|1881|495|234|269|81	4143|584	2.29	0.1302137	1	1.11	0.97	1.26	1.22	0.94	1.59
PBCS1	19	0.345|0.354	216|231|59|83|78|28	506|189	0.09	0.758388	1	1.04	0.81	1.33	1.08	0.66	1.78
PLCO	7	0.333|0.378	437|427|111|29|34|11	975|74	1.16	0.2811958	1	1.21	0.85	1.72	1.47	0.73	2.97
WHI	9	0.351|0.385	1018|1093|298|110|143|42	2409|295	2.40	0.1211551	1	1.15	0.96	1.37	1.32	0.93	1.89
STAGE3	2	0.358|0.333	1479|1586|472|224|243|51	3537|518	1.82	0.1769966	1	0.91	0.79	1.04	0.83	0.63	1.09
NHS2	9	0.368|0.335	459|501|163|35|39|8	1123|82	0.62	0.4310053	1	0.88	0.63	1.22	0.77	0.40	1.48
PBCS2	11	0.349|0.335	744|779|218|146|160|34	1741|340	0.60	0.4398394	1	0.93	0.78	1.11	0.87	0.62	1.24
WHS	8	0.363|0.323	276|306|91|43|44|9	673|96	1.38	0.239867	1	0.82	0.60	1.14	0.68	0.35	1.30
PBCS 1+2	15	0.348|0.342	959|1006|277|229|238|62	2242|529	0.15	0.6986	1	0.97	0.84	1.12	0.95	0.71	1.26

hom OR 95% CI

rs3817198	T|C	11p15.5	1865582 LSP1										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.324|0.323	4021|3887|916|582|578|126	8824|1286	0.00	0.9650829	1	1.00	0.91	1.09	1.00	0.83	1.19
NHS	18	0.318|0.308	524|509|108|82|88|12	1141|182	0.14	0.7114612	1	0.95	0.75	1.22	0.91	0.56	1.49
STAGE1-2	20	0.325|0.334	2407|2311|562|329|359|76	5280|764	0.74	0.3903041	1	1.05	0.94	1.18	1.11	0.88	1.40
STAGE2	17	0.327|0.343	1883|1802|454|247|271|64	4139|582	1.38	0.2394505	1	1.08	0.95	1.24	1.17	0.90	1.53
PBCS1	21	0.319|0.321	229|228|47|84|86|17	504|187	-	0.9987141	1	1.00	0.77	1.30	1.00	0.59	1.70
PLCO	14	0.335|0.365	440|417|118|28|38|8	975|74	0.42	0.5158412	1	1.12	0.79	1.59	1.26	0.63	2.53
WHI	15	0.326|0.346	1097|1051|260|126|134|35	2408|295	0.85	0.3570046	1	1.09	0.91	1.30	1.19	0.83	1.70
STAGE3	7	0.322|0.308	1613|1577|354|252|220|51	3544|523	1.18	0.2767465	1	0.92	0.80	1.07	0.85	0.64	1.14
NHS2	3	0.317|0.259	518|491|109|50|29|8	1118|87	2.52	0.1124682	1	0.75	0.53	1.07	0.56	0.28	1.15
PBCS2	18	0.330|0.333	789|789|189|154|148|40	1767|342	0.06	0.8139589	1	1.02	0.86	1.22	1.04	0.74	1.48
WHS	6	0.310|0.261	306|297|56|48|43|3	659|94	2.29	0.1302792	1	0.76	0.52	1.09	0.57	0.28	1.18
PBCS 1+2	22	0.328|0.327	1019|1016|236|239|233|56	2271|528	0.01	0.940136	1	1.01	0.87	1.16	1.01	0.76	1.35

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.220|0.220	5382|3016|434|787|439|65	8832|1291	0.00	0.9813704	1	1.00	0.90	1.10	1.00	0.82	1.22
NHS	11	0.215|0.246	693|401|44|108|60|15	1138|183	1.58	0.2094231	1	1.18	0.91	1.54	1.40	0.83	2.37
STAGE1-2	21	0.216|0.225	3227|1822|226|465|259|43	5275|767	0.29	0.5883852	1	1.04	0.91	1.18	1.08	0.83	1.40
STAGE2	22	0.216|0.218	2534|1421|182|357|199|28	4137|584	0.01	0.9274837	1	0.99	0.85	1.16	0.99	0.73	1.34
PBCS1	3	0.217|0.272	308|173|23|99|77|13	504|189	4.94	0.0262833	1	1.37	1.04	1.82	1.89	1.08	3.32
PLCO	4	0.223|0.169	577|359|37|52|19|3	973|74	2.54	0.1108099	1	0.69	0.43	1.09	0.47	0.19	1.20
WHI	18	0.212|0.200	1499|797|111|188|96|11	2407|295	0.47	0.4928485	1	0.93	0.75	1.15	0.86	0.56	1.32
STAGE3	16	0.226|0.214	2155|1196|208|322|180|22	3559|524	0.45	0.502943	1	0.95	0.81	1.11	0.90	0.66	1.23
NHS2	8	0.229|0.267	676|383|66|46|34|6	1125|86	1.51	0.2198068	1	1.24	0.88	1.76	1.54	0.77	3.09
PBCS2	4	0.223|0.195	1070|586|98|219|111|11	1754|341	2.29	0.1304574	1	0.85	0.70	1.05	0.73	0.49	1.10
WHS	22	0.232|0.232	409|227|44|57|35|5	680|97	0.04	0.8459395	1	1.04	0.73	1.47	1.07	0.53	2.16
PBCS 1+2	24	0.221|0.223	1378|757|121|318|188|24	2256|530	0.00	0.947341	1	1.01	0.86	1.18	1.01	0.73	1.40

adj_rec Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.372|0.360	3513|4015|1265|511|627|150	8793|1288	7.49	0.0062159	1	0.78	0.65	0.93
NHS	14	0.371|0.358	452|529|159|72|91|20	1140|183	1.30	0.2547189	1	0.75	0.46	1.23
STAGE1-2	2	0.375|0.354	2110|2378|788|308|373|85	5276|766	8.52	0.0035035	1	0.70	0.55	0.89
STAGE2	2	0.376|0.353	1658|1849|629|236|282|65	4136|583	7.43	0.0064147	1	0.68	0.52	0.90
PBCS1	15	0.387|0.362	195|230|81|78|84|26	506|188	0.20	0.6523376	1	0.89	0.55	1.45

hom OR 95% CI

STAGE1-2	1	0.436|0.403	1716|2524|1042/264|388|115	5282|767	9.60	0.0019472	1	0.72	0.58	0.89
STAGE2	1	0.440|0.393	1311|2022|810/210|289|85	4143|584	8.24	0.0040971	1	0.70	0.55	0.89
PBCS1	2	0.415|0.368	186|220|100/74|91|24	506|189	4.31	0.0378243	1	0.60	0.37	0.98
PLCO	12	0.419|0.426	324|485|166/25|35|14	975|74	0.38	0.5380683	1	1.21	0.66	2.24
WHI	2	0.450|0.403	729|1192|488/100|152|43	2409|295	5.59	0.0180128	1	0.67	0.47	0.93
STAGE3	24	0.407|0.407	1240|1715|584/182|260|84	3539|526	0.01	0.9032118	1	0.98	0.77	1.27
NHS2	5	0.417|0.482	378|542|193/22|43|19	1113|84	1.87	0.171794	1	1.45	0.85	2.49
PBCS2	15	0.400|0.397	625|849|274/122|171|51	1748|344	0.22	0.642432	1	0.93	0.67	1.28
WHS	17	0.412|0.378	237|324|117/38|46|14	678|98	0.25	0.6195042	1	0.86	0.47	1.57
PBCS 1+2	1	0.403|0.386	811|1069|373/196|261|75	2253|532	2.31	0.1286696	1	0.81	0.62	1.06

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RADS1L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	3	0.238|0.228	5166|3096|548/760|466|61	8810|1287	3.84	0.0501184	1	0.76	0.58	1.00
NHS	16	0.244|0.239	660|405|76/105|67|10	1141|182	0.45	0.5024493	1	0.79	0.40	1.57
STAGE1-2	7	0.239|0.224	3092|1862|330/459|271|36	5284|766	2.95	0.0856385	1	0.73	0.51	1.05
STAGE2	9	0.237|0.219	2432|1457|254/354|204|26	4143|584	2.54	0.111227	1	0.71	0.47	1.08
PBCS1	19	0.242|0.228	291|185|30/115|62|12	506|189	0.04	0.848131	1	1.07	0.53	2.16
PLCO	6	0.238|0.189	576|334|65/48|24|2	975|74	1.62	0.2035099	1	0.40	0.10	1.71
WHI	8	0.235|0.224	1416|854|139/174|110|11	2409|295	1.96	0.1613558	1	0.64	0.34	1.20
STAGE3	6	0.237|0.235	2075|1237|218/302|195|25	3530|522	1.22	0.2698999	1	0.79	0.51	1.21
NHS2	7	0.234|0.212	664|362|77/52|30|3	1103|85	1.43	0.2309653	1	0.49	0.15	1.60
PBCS2	21	0.236|0.234	1016|637|94/198|125|17	1747|340	0.10	0.7514558	1	0.92	0.54	1.56
WHS	14	0.244|0.258	395|238|47/52|40|5	680|97	0.54	0.461692	1	0.70	0.27	1.82
PBCS 1+2	24	0.237|0.232	1306|819|124/312|187|29	2249|528	0.00	0.9573692	1	0.99	0.65	1.50

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	4	0.451|0.437	2683|4344|1810/399|650|238	8837|1287	3.29	0.0695406	1	0.87	0.75	1.01
NHS	8	0.470|0.432	312|585|244/55|98|30	1141|183	2.07	0.1498841	1	0.74	0.48	1.12
STAGE1-2	3	0.454|0.428	1574|2618|1092/239|399|129	5284|767	6.82	0.0089958	1	0.76	0.62	0.94
STAGE2	6	0.450|0.427	1262|2033|848/184|301|99	4143|584	4.77	0.0289226	1	0.77	0.61	0.97
PBCS1	3	0.483|0.439	138|247|121/57|98|34	506|189	2.37	0.1239692	1	0.71	0.46	1.10
PLCO	21	0.449|0.453	298|478|199/22|37|15	975|74	0.00	0.9860835	1	0.99	0.55	1.80
WHI	5	0.443|0.408	755|1175|479/99|151|45	2409|295	3.27	0.0704695	1	0.74	0.53	1.03
STAGE3	20	0.445|0.450	1109|1730|719/161|251|109	3558|521	0.11	0.7424725	1	1.04	0.83	1.31
NHS2	12	0.440|0.506	363|535|227/19|46|20	1125|85	0.44	0.5048311	1	1.19	0.71	2.02
PBCS2	22	0.457|0.432	518|863|368/115|156|69	1749|340	0.06	0.7990951	1	0.96	0.72	1.29

hom OR 95% l

NHS2	1	0.103|0.137	905|207|12|65|15|4	1124|84	7.26	0.0070337	1	4.37	1.36	14.03
PBCS2	16	0.104|0.105	1412|338|15|273|68|2	1765|343	0.20	0.6515794	1	0.71	0.16	3.14
WHS	24	0.094|0.093	556|128|0|79|18|0	684|97	-		1	1.00	1.00	1.00
PBCS 1+2	10	0.102|0.103	1829|420|21|425|104|3	2270|532	0.74	0.3898034	1	0.59	0.17	2.00

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	6	0.227|0.250	5293|3091|463|722|489|77	8847|1288	2.09	0.1483615	1	1.20	0.94	1.55
NHS	3	0.220|0.260	689|402|50|101|69|13	1141|183	3.22	0.0729339	1	1.78	0.94	3.37
STAGE1-2	12	0.228|0.256	3133|1895|256|420|302|45	5284|767	2.17	0.1407152	1	1.29	0.92	1.80
STAGE2	17	0.230|0.254	2444|1493|206|319|233|32	4143|584	0.50	0.4807813	1	1.15	0.78	1.71
PBCS1	10	0.226|0.235	299|185|22|106|77|6	506|189	0.99	0.3197854	1	0.62	0.24	1.59
PLCO	9	0.236|0.264	578|334|63|38|33|3	975|74	0.90	0.342561	1	0.57	0.17	1.87
WHI	6	0.229|0.264	1421|875|113|160|114|21	2409|295	3.04	0.0811318	1	1.53	0.95	2.49
STAGE3	17	0.226|0.241	2160|1196|207|302|188|32	3563|522	0.17	0.6803018	1	1.09	0.74	1.60
NHS2	11	0.228|0.229	687|372|72|52|24|7	1131|83	0.47	0.4917676	1	1.33	0.59	3.00
PBCS2	10	0.226|0.230	1063|591|102|202|124|17	1756|343	0.43	0.5131214	1	0.84	0.49	1.42
WHS	8	0.221|0.292	410|233|33|48|40|8	676|96	1.61	0.204437	1	1.69	0.75	3.82
PBCS 1+2	7	0.226|0.232	1362|776|124|308|200|23	2262|531	0.85	0.356135	1	0.81	0.51	1.28

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	7	0.208|0.231	5507|2905|379|759|465|65	8791|1289	2.07	0.150681	1	1.22	0.93	1.61
NHS	4	0.204|0.238	718|381|42|107|65|11	1141|183	2.59	0.1076342	1	1.75	0.88	3.49
STAGE1-2	8	0.208|0.233	3285|1798|201|446|283|37	5284|766	2.62	0.1058239	1	1.34	0.93	1.94
STAGE2	13	0.209|0.232	2567|1417|159|339|218|26	4143|583	0.80	0.3714442	1	1.22	0.79	1.89
PBCS1	11	0.210|0.214	310|179|17|113|71|5	506|189	0.62	0.4301866	1	0.66	0.23	1.86
PLCO	8	0.220|0.243	599|323|53|40|32|2	975|74	1.16	0.2815369	1	0.46	0.11	1.95
WHI	4	0.206|0.238	1501|825|83|171|106|17	2409|294	3.88	0.0489425	1	1.71	1.00	2.93
STAGE3	19	0.209|0.228	2222|1108|178|313|182|28	3508|523	0.12	0.7309937	1	1.08	0.71	1.63
NHS2	15	0.208|0.235	694|332|60|51|28|6	1086|85	0.23	0.6290459	1	1.24	0.52	2.97
PBCS2	23	0.208|0.215	1111|557|86|211|115|16	1754|342	0.05	0.8240402	1	0.94	0.54	1.63
WHS	15	0.212|0.266	417|219|32|51|39|6	668|96	0.30	0.582786	1	1.29	0.52	3.20
PBCS 1+2	18	0.208|0.215	1421|735|103|324|186|21	2259|531	0.22	0.6408459	1	0.89	0.55	1.45

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

hom OR 95% l

rs2067980	A|G	5p12	45018074								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	9	0.160|0.163	6228|2348|240|902|356|32	8816|1290	1.22	0.2699405	1	0.81	0.55	1.18	
NHS	10	0.151|0.172	814|310|17|125|53|5	1141|183	1.55	0.2128862	1	1.89	0.68	5.25	
STAGE1-2	15	0.150|0.170	3805|1374|105|530|213|24	5284|767	1.46	0.2263347	1	1.33	0.83	2.11	
STAGE2	16	0.150|0.170	2991|1064|88|405|160|19	4143|584	0.59	0.4432693	1	1.23	0.73	2.07	
PBCS1	4	0.191|0.251	335|149|22|107|69|13	506|189	2.12	0.1450972	1	1.71	0.83	3.55	
PLCO	15	0.144|0.122	714|241|20|57|16|1	975|74	0.12	0.7337198	1	0.70	0.09	5.41	
WHI	22	0.143|0.134	1761|606|42|221|69|5	2409|295	0.02	0.9010911	1	0.94	0.37	2.41	
STAGE3	1	0.176|0.152	2423|975|135|372|143|8	3533|523	7.13	0.0075955	1	0.39	0.19	0.80	
NHS2	23	0.169|0.149	777|292|42|59|25|0	1111|84							
PBCS2	1	0.190|0.156	1158|519|73|243|93|7	1750|343	3.28	0.0700345	1	0.49	0.22	1.08	
WHS	11	0.152|0.141	488|164|20|70|25|1	672|96	1.03	0.3107539	1	0.37	0.05	2.77	
PBCS 1+2	15	0.190|0.190	1493|667|95|350|162|20	2255|532	0.26	0.6092276	1	0.88	0.53	1.44	
Locus	Alleles	Chr	Location	Neighborhood							
rs12608723	A|G	19q13.11		38508973							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	10	0.136|0.132	6618|2036|188|984|274|33	8842|1291	1.14	0.2863558	1	1.23	0.84	1.80	
NHS	5	0.153|0.156	818|296|27|127|55|1	1141|183	2.58	0.1084098	1	0.22	0.03	1.66	
STAGE1-2	16	0.143|0.143	3887|1281|116|569|176|22	5284|767	1.46	0.2271408	1	1.34	0.83	2.14	
STAGE2	4	0.140|0.140	3069|985|89|442|121|21	4143|584	5.03	0.0248684	1	1.75	1.07	2.89	
PBCS1	18	0.153|0.135	364|129|13|142|43|4	506|189	0.07	0.7868473	1	0.85	0.27	2.69	
PLCO	1	0.132|0.162	738|216|21|57|10|7	975|74	12.05	0.000519	1	4.51	1.80	11.32	
WHI	19	0.141|0.137	1783|572|54|222|65|8	2409|295	0.29	0.5923618	1	1.23	0.58	2.61	
STAGE3	23	0.127|0.115	2733|758|72|415|99|11	3563|525	0.05	0.8186121	1	1.08	0.56	2.06	
NHS2	4	0.126|0.138	869|243|21|67|16|4	1133|87	2.63	0.1048297	1	2.42	0.81	7.25	
PBCS2	8	0.124|0.102	1344|368|32|276|62|4	1744|342	0.65	0.4189725	1	0.65	0.23	1.86	
WHS	23	0.135|0.141	520|147|19|72|21|3	686|96	0.02	0.8826785	1	1.10	0.31	3.86	
PBCS 1+2	9	0.130|0.113	1706|494|45|418|104|8	2245|530	0.79	0.37266	1	0.71	0.33	1.52	
Locus	Alleles	Chr	Location	Neighborhood							
rs7936636	C|T	11p11.2		44397546							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	11	0.258|0.234	4826|3425|560|759|457|74	8811|1290	0.58	0.4465326	1	0.91	0.70	1.17	
NHS	6	0.256|0.219	634|430|77|110|66|7	1141|183	2.20	0.1377405	1	0.55	0.25	1.22	
STAGE1-2	18	0.263|0.226	2851|2086|344|465|258|44	5281|767	0.44	0.5053074	1	0.89	0.64	1.24	

hom OR 95% CI

STAGE2	23	0.034|0.022	3863|278|2|558|26|0	4143|584							
PBCS1	22	0.033|0.021	473|33|0|181|8|0	506|189	-	1	1	1.00	1.00	1.00	
PLCO	24	0.036|0.020	906|68|1|71|3|0	975|74							
WHI	24	0.034|0.025	2245|163|1|280|15|0	2409|295							
STAGE3	8	0.034|0.028	3296|227|8|496|25|2	3531|523	1.08	0.2979503	1	2.26	0.47	10.92	
NHS2	24	0.039|0.000	1029|77|5|84|0|0	1111|84							
PBCS2	5	0.032|0.033	1648|112|1|322|21|1	1761|344	1.62	0.2027334	1	5.07	0.32	81.44	
WHS	7	0.032|0.032	619|38|2|90|4|1	659|95	1.73	0.1881761	1	4.48	0.39	51.35	
PBCS 1+2	3	0.032|0.029	2121|145|1|503|29|1	2267|533	1.65	0.1989004	1	5.13	0.32	82.43	

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	13	0.407|0.422	3135|4180|1492|434|623|232	8807|1289	0.46	0.4985071	1	1.05	0.90	1.23
NHS	7	0.392|0.448	429|513|185|57|87|38	1127|182	2.09	0.1481922	1	1.34	0.90	1.98
STAGE1-2	14	0.401|0.422	1895|2517|857|264|358|144	5269|766	2.12	0.1453554	1	1.16	0.95	1.42
STAGE2	14	0.404|0.414	1466|2004|672|207|271|106	4142|584	0.77	0.3805767	1	1.11	0.88	1.40
PBCS1	1	0.410|0.476	174|249|83|55|88|46	506|189	6.74	0.0094352	1	1.73	1.14	2.63
PLCO	2	0.408|0.338	339|475|160|28|42|4	974|74	6.37	0.0116126	1	0.29	0.10	0.80
WHI	16	0.400|0.402	866|1158|385|111|131|53	2409|295	0.60	0.4397412	1	1.13	0.82	1.56
STAGE3	14	0.415|0.422	1240|1666|636|171|265|89	3542|525	0.32	0.5711418	1	0.93	0.73	1.19
NHS2	20	0.402|0.403	413|517|193|31|43|14	1123|88	0.08	0.7775529	1	0.92	0.51	1.66
PBCS2	12	0.424|0.413	593|833|328|117|165|58	1754|340	0.37	0.5455683	1	0.91	0.67	1.24
WHS	22	0.411|0.469	234|316|115|23|57|17	665|97	0.04	0.8504409	1	1.06	0.60	1.86
PBCS 1+2	8	0.421|0.435	767|1079|410|171|253|103	2256|527	0.81	0.3668631	1	1.12	0.88	1.43

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	14	0.261|0.267	4211|2933|535|597|424|83	7679|1104	0.43	0.514089	1	1.08	0.85	1.38
STAGE1-2	5	0.252|0.276	2304|1588|250|308|228|47	4142|583	3.37	0.066309	1	1.34	0.96	1.87
STAGE2	8	0.252|0.276	2304|1588|250|308|228|47	4142|583	3.03	0.0815691	1	1.34	0.96	1.87
PBCS1	21	0.246|0.250	293|177|36|106|70|12	506|188	0.00	0.9486807	1	0.98	0.49	1.95
PLCO	3	0.230|0.257	569|364|42|44|22|8	975|74	6.32	0.0119285	1	2.78	1.22	6.37
WHI	13	0.263|0.295	1302|949|158|145|126|24	2409|295	0.81	0.3671032	1	1.23	0.78	1.93
STAGE3	15	0.271|0.258	1907|1349|285|290|196|37	3541|523	0.31	0.5789882	1	0.90	0.63	1.29
NHS2	18	0.269|0.286	611|397|100|45|30|9	1108|84	0.22	0.6359468	1	1.19	0.58	2.45

hom OR 95% l

PBCS 1+2 5 0.402|0.401 795|1103|352|178|279|73 2250|530 1.24 0.266038 1 0.86 0.65 1.13

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	16	0.374|0.360	3426|4157|1207|533|588|171	8790|1292	0.37	0.5451444	1	0.95	0.80	1.13
NHS	19	0.382|0.374	429|553|159|73|83|27	1141|183	0.03	0.8625662	1	1.04	0.67	1.62
STAGE1-2	19	0.383|0.362	1953|2611|714|311|356|100	5278|767	0.40	0.527466	1	0.93	0.74	1.17
STAGE2	15	0.383|0.359	1524|2058|555|238|273|73	4137|584	0.67	0.4127047	1	0.89	0.68	1.17
PBCS1	13	0.375|0.381	193|244|67|74|86|29	504|189	0.36	0.5479968	1	1.16	0.72	1.88
PLCO	18	0.371|0.358	371|484|120|30|35|9	975|74	0.01	0.9066518	1	0.96	0.46	2.01
WHI	9	0.385|0.342	871|1215|320|124|140|31	2406|295	1.88	0.1706925	1	0.76	0.51	1.13
STAGE3	18	0.361|0.356	1473|1545|494|222|232|71	3512|525	0.12	0.7251359	1	0.95	0.73	1.25
NHS2	13	0.364|0.341	446|495|150|41|30|14	1091|85	0.39	0.5321502	1	1.21	0.66	2.21
PBCS2	19	0.359|0.366	732|784|238|141|153|49	1754|343	0.13	0.7209025	1	1.06	0.76	1.48
WHS	2	0.358|0.335	295|266|106|40|49|8	667|97	4.85	0.0276484	1	0.43	0.20	0.93
PBCS 1+2	11	0.362|0.371	925|1029|304|215|239|78	2258|532	0.52	0.4707179	1	1.11	0.84	1.45

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	17	0.395|0.397	3255|4114|1412|474|598|209	8781|1281	0.33	0.5674177	1	1.05	0.89	1.23
NHS	12	0.388|0.412	425|540|170|65|84|33	1135|182	1.38	0.2394518	1	1.28	0.85	1.94
STAGE1-2	21	0.403|0.402	1899|2491|874|270|373|121	5264|764	0.07	0.7938192	1	0.97	0.79	1.20
STAGE2	12	0.407|0.399	1474|1951|704|205|289|88	4129|582	0.87	0.3511583	1	0.89	0.70	1.14
PBCS1	14	0.387|0.392	195|230|81|67|96|26	506|189	0.32	0.5726536	1	0.87	0.53	1.42
PLCO	19	0.420|0.411	324|476|169|26|34|13	969|73	0.01	0.9180206	1	1.03	0.55	1.94
WHI	12	0.407|0.396	857|1133|411|105|145|44	2401|294	0.82	0.3654987	1	0.86	0.61	1.20
STAGE3	4	0.383|0.388	1360|1625|538|204|225|88	3523|517	1.60	0.2061992	1	1.17	0.92	1.51
NHS2	6	0.395|0.453	418|522|182|27|40|19	1122|86	1.67	0.1959579	1	1.42	0.83	2.43
PBCS2	9	0.362|0.372	719|778|240|137|149|51	1737|337	0.47	0.4931401	1	1.12	0.81	1.56
WHS	20	0.419|0.383	223|325|116|40|36|18	664|94	0.11	0.7450198	1	1.10	0.63	1.91
PBCS 1+2	21	0.368|0.379	910|1006|321|204|245|77	2237|526	0.01	0.9028431	1	1.02	0.77	1.34

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

hom OR 95% l

STAGE1-3	19	0.384|0.370	3358|3974|1348/513|560|186	8680|1259	0.08	0.7840087	1	0.98	0.83	1.16
NHS	17	0.399|0.369	403|541|177/77|68|31	1121|176	0.35	0.552497	1	1.14	0.74	1.74
STAGE1-2	17	0.400|0.376	1731|2149|796/227|246|88	4676|561	0.74	0.388436	1	0.90	0.71	1.15
STAGE2	10	0.400|0.379	1328|1608|619/150|178|57	3555|385	1.95	0.1625442	1	0.81	0.60	1.09
PLCO	20	0.378|0.396	379|431|146/26|35|11	956|72	0.00	0.9607548	1	1.02	0.52	2.00
WHI	11	0.409|0.387	857|1064|430/111|131|46	2351|288	0.86	0.3550469	1	0.85	0.61	1.19
STAGE3	11	0.366|0.382	1434|1610|490/203|238|80	3534|521	0.86	0.353742	1	1.13	0.87	1.47
NHS2	3	0.366|0.419	457|508|157/32|36|18	1122|86	3.63	0.0568456	1	1.70	0.98	2.94
PBCS2	6	0.368|0.362	706|782|248/134|163|41	1736|338	1.36	0.2433063	1	0.81	0.57	1.15
WHS	1	0.362|0.418	271|320|85/37|39|21	676|97	6.33	0.0118633	1	2.01	1.16	3.48
PBCS 1+2	2	0.367|0.347	899|997|310/217|239|59	2206|515	1.89	0.1687396	1	0.81	0.60	1.09

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	20	0.225|0.225	5271|3090|432/779|439|70	8793|1288	0.06	0.7994715	1	1.03	0.79	1.35
NHS	20	0.220|0.191	694|392|55/122|52|9	1141|183	0.00	0.9698733	1	0.99	0.48	2.04
STAGE1-2	22	0.220|0.202	3182|1875|227/492|240|35	5284|767	0.00	0.9889676	1	1.00	0.69	1.46
STAGE2	22	0.220|0.205	2488|1483|172/370|188|26	4143|584	0.00	0.9868772	1	1.00	0.65	1.55
PBCS1	17	0.244|0.222	284|197|25/114|66|9	506|189	0.08	0.7710003	1	0.89	0.40	1.97
PLCO	13	0.229|0.203	577|350|48/47|24|3	975|74	0.24	0.6241386	1	0.74	0.22	2.48
WHI	18	0.213|0.198	1476|838|95/192|89|14	2409|295	0.43	0.5130671	1	1.21	0.68	2.16
STAGE3	16	0.232|0.258	2090|1217|205/287|199|35	3512|521	0.22	0.6397097	1	1.09	0.75	1.59
NHS2	17	0.200|0.204	712|332|53/51|27|3	1097|81	0.23	0.6343338	1	0.75	0.23	2.46
PBCS2	18	0.252|0.278	980|644|117/177|141|25	1741|343	0.15	0.7021929	1	1.09	0.70	1.71
WHS	13	0.231|0.232	398|241|35/59|31|7	674|97	0.68	0.4096054	1	1.43	0.61	3.35
PBCS 1+2	22	0.250|0.258	1263|839|142/291|207|34	2244|532	0.01	0.9063226	1	1.02	0.69	1.51

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	21	0.219|0.210	5354|3028|417/811|412|65	8799|1288	0.05	0.8251576	1	1.03	0.79	1.35
NHS	11	0.218|0.180	691|402|48/121|58|4	1141|183	1.50	0.2209534	1	0.53	0.19	1.49
STAGE1-2	11	0.218|0.213	3200|1869|215/481|246|40	5284|767	2.20	0.1381287	1	1.31	0.92	1.86
STAGE2	3	0.217|0.223	2509|1467|167/360|188|36	4143|584	5.42	0.0199301	1	1.57	1.07	2.30

hom OR 95% l

STAGE3	3	0.226|0.214	2155|1196|208|322|180|22	3559|524	1.91	0.1673266	1	0.73	0.46	1.14
NHS2	16	0.229|0.267	676|383|66|46|34|6	1125|86	0.23	0.6295962	1	1.24	0.52	2.95
PBCS2	2	0.223|0.195	1070|586|98|219|111|11	1754|341	3.10	0.0785246	1	0.57	0.30	1.07
WHS	18	0.232|0.232	409|227|44|57|35|5	680|97	0.20	0.6548932	1	0.80	0.31	2.10
PBCS 1+2	12	0.221|0.223	1378|757|121|318|188|24	2256|530	0.44	0.5062432	1	0.86	0.55	1.35

Locus rs9491859 Alleles C|A Chr 6q22.33 Location 128106056 Neighborhood C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% CI_u
STAGE1-3	23	0.352|0.357	3704|4014|1097|525|602|158	8815|1285	0.01	0.9102678	1	0.99	0.83	1.19
NHS	13	0.356|0.388	459|551|130|67|90|26	1140|183	1.38	0.2406068	1	1.31	0.83	2.08
STAGE1-2	10	0.348|0.374	2226|2432|625|301|359|107	5283|767	2.51	0.1128823	1	1.20	0.96	1.51
STAGE2	11	0.346|0.369	1767|1881|495|234|269|81	4143|584	1.43	0.2315327	1	1.17	0.90	1.52
PBCS1	9	0.345|0.354	216|231|59|83|78|28	506|189	1.02	0.3124444	1	1.29	0.79	2.12
PLCO	10	0.333|0.378	437|427|111|29|34|11	975|74	0.86	0.3537868	1	1.38	0.70	2.74
WHI	15	0.351|0.385	1018|1093|298|110|143|42	2409|295	0.65	0.4190776	1	1.16	0.81	1.64
STAGE3	2	0.358|0.333	1479|1586|472|224|243|51	3537|518	4.22	0.040037	1	0.73	0.53	0.99
NHS2	8	0.368|0.335	459|501|163|35|39|8	1123|82	1.43	0.2325376	1	0.64	0.30	1.35
PBCS2	4	0.349|0.335	744|779|218|146|160|34	1741|340	1.87	0.1714536	1	0.77	0.52	1.12
WHS	9	0.363|0.323	276|306|91|43|44|9	673|96	1.57	0.2100875	1	0.63	0.30	1.31
PBCS 1+2	17	0.348|0.342	959|1006|277|229|238|62	2242|529	0.22	0.6361298	1	0.93	0.69	1.25

Locus rs10941679 Alleles A|G Chr 5p12 Location 44742255 Neighborhood

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% CI_u
STAGE1-3	24	0.259|0.264	2201|1519|277|378|275|47	3997|700	0.00	0.9646967	1	0.99	0.72	1.38
STAGE3	10	0.259|0.247	1945|1325|250|293|197|30	3520|520	0.94	0.3329528	1	0.82	0.56	1.22
NHS2	9	0.256|0.268	607|415|73|46|28|8	1095|82	1.22	0.2695034	1	1.54	0.71	3.32
PBCS2	3	0.259|0.235	969|667|121|196|130|15	1757|341	2.56	0.1094751	1	0.64	0.37	1.11
WHS	21	0.266|0.273	369|243|56|51|39|7	668|97	0.09	0.7608894	1	0.88	0.39	2.01
PBCS 1+2	19	0.259|0.261	1225|861|148|281|208|32	2234|521	0.11	0.7414653	1	0.94	0.63	1.39

unadj_geno

Locus Alleles Chr Location Neighborhood

hom OR 95% l

STAGE1-3	2	0.372|0.359	3658|4164|1315|521|636|152	9137|1309	8.58	0.0137033	2	1.07	0.95	1.21	0.81	0.67	0.98
NHS	16	0.371|0.358	452|529|159|72|91|20	1140|183	1.44	0.4874452	2	1.08	0.77	1.51	0.79	0.47	1.34
STAGE1-2	3	0.374|0.355	2234|2499|829|314|380|87	5562|781	8.82	0.0121708	2	1.08	0.92	1.27	0.75	0.58	0.96
STAGE2	5	0.374|0.354	1782|1970|670|242|289|67	4422|598	7.27	0.0264436	2	1.08	0.90	1.30	0.74	0.55	0.98
CPSII	5	0.371|0.402	217|240|79|12|25|4	536|41	4.04	0.13259	2	1.88	0.92	3.84	0.92	0.29	2.92
PBCS1	16	0.387|0.362	195|230|81|78|84|26	506|188	0.74	0.6895158	2	0.91	0.64	1.31	0.80	0.48	1.34
PLCO	5	0.376|0.345	398|416|157|29|39|6	971|74	4.45	0.107842	2	1.29	0.78	2.12	0.52	0.21	1.29
WHI	9	0.372|0.344	972|1084|353|123|141|31	2409|295	3.75	0.1532398	2	1.03	0.80	1.33	0.69	0.46	1.05
STAGE3	20	0.369|0.365	1424|1669|486|207|255|65	3579|527	0.86	0.6497582	2	1.05	0.86	1.28	0.92	0.68	1.24
NHS2	19	0.344|0.348	510|503|148|37|42|10	1161|89	0.54	0.7643014	2	1.15	0.73	1.82	0.93	0.45	1.92
PBCS2	22	0.380|0.382	656|853|236|126|171|45	1745|342	0.14	0.9303711	2	1.04	0.81	1.34	0.99	0.68	1.44
WHS	8	0.384|0.323	258|313|102|44|42|10	673|96	2.64	0.2675711	2	0.79	0.50	1.24	0.57	0.28	1.19
PBCS 1+2	21	0.381|0.375	851|1079|317|204|256|71	2247|531	0.20	0.9031173	2	0.99	0.81	1.21	0.93	0.69	1.26

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.426|0.405	3060|4399|1711|452|660|202	9170|1314	8.38	0.015173	2	1.02	0.89	1.15	0.80	0.67	0.95
NHS	3	0.424|0.434	405|502|232|54|99|30	1139|183	6.40	0.0406753	2	1.48	1.04	2.11	0.97	0.60	1.56
STAGE1-2	2	0.438|0.402	1803|2653|1117|270|396|117	5573|783	11.42	0.0033168	2	1.00	0.84	1.18	0.70	0.56	0.88
STAGE2	2	0.442|0.393	1398|2151|885|216|297|87	4434|600	11.56	0.0030906	2	0.89	0.74	1.08	0.64	0.49	0.83
CPSII	6	0.475|0.369	158|254|131|17|19|6	543|42	3.32	0.1902589	2	0.70	0.35	1.38	0.43	0.16	1.11
PBCS1	4	0.415|0.368	186|220|100|74|91|24	506|189	4.73	0.0939266	2	1.04	0.72	1.50	0.60	0.36	1.02
PLCO	18	0.419|0.426	324|485|166|25|35|14	975|74	0.23	0.890015	2	0.94	0.55	1.59	1.09	0.55	2.16
WHI	4	0.450|0.403	730|1192|488|100|152|43	2410|295	5.65	0.0593396	2	0.93	0.71	1.22	0.64	0.44	0.94
STAGE3	21	0.408|0.409	1257|1746|595|182|265|85	3598|532	0.32	0.8541338	2	1.05	0.86	1.28	0.99	0.75	1.30
NHS2	5	0.418|0.483	394|568|202|22|47|19	1164|88	3.11	0.2107337	2	1.48	0.88	2.50	1.68	0.89	3.18
PBCS2	21	0.400|0.397	625|849|274|122|171|51	1748|344	0.22	0.8972547	2	1.03	0.80	1.33	0.95	0.67	1.36
WHS	19	0.413|0.385	238|329|119|38|47|15	686|100	0.57	0.7518467	2	0.89	0.57	1.42	0.79	0.42	1.49
PBCS 1+2	7	0.403|0.386	811|1069|373|196|261|75	2253|532	1.94	0.3798854	2	1.01	0.82	1.24	0.83	0.62	1.12

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

hom OR 95% CI

STAGE2	11	0.208|0.233	2754|1514|166|346|227|26	4434|599	4.26	0.1188903	2	1.19	1.00	1.43	1.25	0.81	1.91
CPSII	7	0.196|0.262	343|187|13|22|18|2	543|42	2.37	0.3060685	2	1.50	0.79	2.87	2.40	0.51	11.30
PBCS1	19	0.210|0.214	310|179|17|113|71|5	506|189	0.45	0.7966889	2	1.09	0.77	1.54	0.81	0.29	2.24
PLCO	7	0.220|0.243	599|323|53|40|32|2	975|74	3.67	0.1592414	2	1.48	0.91	2.41	0.57	0.13	2.40
WHI	5	0.206|0.238	1502|825|83|171|106|17	2410|294	4.86	0.088043	2	1.13	0.87	1.46	1.80	1.04	3.10
STAGE3	5	0.208|0.227	2260|1126|180|316|184|28	3566|528	2.51	0.2853715	2	1.17	0.96	1.42	1.11	0.73	1.69
NHS2	14	0.206|0.236	730|346|61|53|30|6	1137|89	0.86	0.6521169	2	1.19	0.75	1.90	1.35	0.56	3.28
PBCS2	17	0.208|0.215	1111|557|86|211|115|16	1754|342	0.46	0.7927244	2	1.09	0.85	1.39	0.98	0.56	1.70
WHS	9	0.214|0.263	419|223|33|52|39|6	675|97	2.56	0.277619	2	1.41	0.90	2.20	1.47	0.59	3.66
PBCS 1+2	9	0.208|0.215	1421|735|103|324|186|21	2259|531	1.41	0.4948072	2	1.11	0.91	1.36	0.89	0.55	1.45

Locus Alleles Chr Location Neighborhood
rs13134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.226|0.249	5514|3211|475|734|499|77	9200|1310	7.36	0.0252172	2	1.17	1.03	1.32	1.22	0.95	1.57
NHS	7	0.220|0.260	689|402|50|101|69|13	1141|183	3.44	0.1791253	2	1.17	0.84	1.63	1.77	0.93	3.38
STAGE1-2	6	0.227|0.255	3314|1996|265|428|310|45	5575|783	6.78	0.0337796	2	1.20	1.03	1.41	1.31	0.94	1.83
STAGE2	9	0.228|0.254	2625|1594|215|327|241|32	4434|600	4.82	0.0896638	2	1.21	1.02	1.45	1.19	0.81	1.76
CPSII	17	0.215|0.250	326|200|17|23|17|2	543|42	0.64	0.7258853	2	1.20	0.63	2.31	1.67	0.36	7.66
PBCS1	12	0.226|0.235	299|185|22|106|77|6	506|189	1.32	0.5165559	2	1.17	0.83	1.66	0.77	0.30	1.95
PLCO	8	0.236|0.264	578|334|63|38|33|3	975|74	3.47	0.1762729	2	1.50	0.92	2.44	0.72	0.22	2.41
WHI	6	0.228|0.264	1422|875|113|160|114|21	2410|295	4.55	0.1029877	2	1.16	0.90	1.49	1.65	1.01	2.71
STAGE3	14	0.226|0.241	2200|1215|210|306|190|32	3625|528	1.46	0.4825217	2	1.12	0.93	1.37	1.10	0.74	1.62
NHS2	15	0.225|0.230	724|388|73|54|26|7	1185|87	0.67	0.7138838	2	0.90	0.55	1.46	1.29	0.56	2.93
PBCS2	14	0.226|0.230	1063|591|102|202|124|17	1756|343	1.02	0.6002165	2	1.10	0.86	1.41	0.88	0.51	1.50
WHS	5	0.224|0.286	413|236|35|50|40|8	684|98	3.68	0.1585788	2	1.40	0.90	2.19	1.89	0.83	4.30
PBCS 1+2	1	0.226|0.232	1362|776|124|308|200|23	2262|531	2.82	0.2440696	2	1.14	0.93	1.39	0.82	0.52	1.30

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.094|0.108	7550|1579|79|1047|249|17	9208|1313	5.30	0.0707265	2	1.14	0.98	1.32	1.55	0.92	2.63

hom OR 95% CI

PLCO	14	0.214|0.209	603|326|46|48|21|5	975|74	1.22	0.5431086	2	0.81	0.48	1.38	1.37	0.52	3.60
WHI	8	0.215|0.212	1467|851|92|187|91|17	2410|295	4.24	0.1197552	2	0.84	0.64	1.09	1.45	0.85	2.49
STAGE3	16	0.223|0.207	2185|1184|205|334|168|25	3574|527	1.40	0.4967904	2	0.93	0.76	1.13	0.80	0.52	1.23
NHS2	20	0.211|0.206	723|368|59|55|25|5	1150|85	0.30	0.8627148	2	0.89	0.55	1.46	1.11	0.43	2.89
PBCS2	12	0.234|0.212	1042|597|112|215|109|18	1751|342	1.55	0.4612495	2	0.88	0.69	1.14	0.78	0.46	1.31
WHS	11	0.213|0.190	420|219|34|64|34|2	673|100	1.83	0.3998655	2	1.02	0.65	1.59	0.39	0.09	1.65
PBCS 1+2	15	0.236|0.227	1324|799|133|321|179|31	2256|531	0.59	0.7460987	2	0.92	0.75	1.13	0.96	0.64	1.45

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.237|0.229	5374|3222|563|773|472|64	9159|1309	3.30	0.1916886	2	1.02	0.90	1.15	0.79	0.60	1.03
NHS	20	0.244|0.239	660|405|76|105|67|10	1141|182	0.41	0.8164741	2	1.04	0.75	1.45	0.83	0.41	1.65
STAGE1-2	20	0.238|0.224	3263|1971|341|469|275|38	5575|782	2.07	0.3553768	2	0.97	0.83	1.14	0.78	0.55	1.10
STAGE2	20	0.236|0.220	2603|1566|265|364|208|28	4434|600	1.97	0.3741095	2	0.95	0.79	1.14	0.76	0.50	1.13
CPSII	13	0.235|0.214	319|193|31|27|12|3	543|42	0.88	0.6437795	2	0.73	0.36	1.48	1.14	0.33	3.98
PBCS1	15	0.242|0.228	291|185|30|115|62|12	506|189	0.85	0.6540959	2	0.85	0.59	1.22	1.01	0.50	2.05
PLCO	11	0.238|0.189	576|334|65|48|24|2	975|74	2.15	0.3418996	2	0.86	0.52	1.43	0.37	0.09	1.55
WHI	14	0.235|0.224	1417|854|139|174|110|11	2410|295	2.22	0.328767	2	1.05	0.81	1.35	0.64	0.34	1.21
STAGE3	8	0.237|0.236	2112|1254|222|305|197|26	3588|528	2.04	0.3604606	2	1.09	0.90	1.32	0.81	0.53	1.24
NHS2	10	0.232|0.208	698|374|81|55|31|3	1153|89	1.80	0.4069142	2	1.05	0.67	1.66	0.47	0.14	1.54
PBCS2	24	0.236|0.234	1016|637|94|198|125|17	1747|340	0.08	0.9584114	2	1.01	0.79	1.29	0.93	0.54	1.59
WHS	14	0.245|0.268	398|243|47|52|41|6	688|99	1.40	0.4975595	2	1.29	0.83	2.00	0.98	0.40	2.40
PBCS 1+2	22	0.237|0.232	1306|819|124|312|187|29	2249|528	0.19	0.9072264	2	0.96	0.78	1.17	0.98	0.64	1.49

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.452|0.436	2783|4512|1894|411|654|244	9189|1309	2.82	0.2436431	2	0.98	0.86	1.12	0.87	0.74	1.03
NHS	12	0.470|0.432	312|585|244|55|98|30	1141|183	2.48	0.2900363	2	0.95	0.66	1.36	0.70	0.43	1.12
STAGE1-2	7	0.456|0.427	1656|2756|1163|248|402|133	5575|783	6.45	0.0397809	2	0.97	0.82	1.15	0.76	0.61	0.96

hom OR 95% CI

NHS2	4	0.127|0.132	907|259|21|71|16|4	1187|91	3.71	0.1561105	2	0.79	0.45	1.38	2.43	0.81	7.28
PBCS2	6	0.124|0.102	1344|368|32|276|62|4	1744|342	2.45	0.2943695	2	0.82	0.61	1.11	0.61	0.21	1.74
WHS	23	0.135|0.143	527|147|20|73|22|3	694|98	0.10	0.9522342	2	1.08	0.65	1.80	1.08	0.31	3.73
PBCS 1+2	5	0.130|0.113	1706|494|45|418|104|8	2245|530	2.14	0.3425759	2	0.86	0.68	1.09	0.73	0.34	1.55

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.408|0.423	3249|4351|1557|439|636|236	9157|1311	2.20	0.3325225	2	1.08	0.95	1.23	1.12	0.95	1.33
NHS	5	0.392|0.448	429|513|185|57|87|38	1127|182	3.93	0.1400014	2	1.28	0.89	1.83	1.55	0.99	2.41
STAGE1-2	16	0.403|0.424	1986|2660|913|267|367|148	5559|782	3.17	0.2049934	2	1.03	0.87	1.21	1.21	0.97	1.50
STAGE2	21	0.406|0.417	1557|2147|728|210|280|110	4432|600	1.50	0.4717114	2	0.97	0.80	1.17	1.12	0.88	1.43
CPSII	18	0.427|0.393	178|265|99|16|19|7	542|42	0.49	0.7843172	2	0.80	0.40	1.59	0.79	0.31	1.98
PBCS1	1	0.410|0.476	174|249|83|55|88|46	506|189	6.03	0.0489301	2	1.12	0.76	1.65	1.75	1.09	2.81
PLCO	4	0.408|0.338	339|475|160|28|42|4	974|74	6.41	0.0405753	2	1.07	0.65	1.76	0.30	0.10	0.88
WHI	15	0.400|0.402	866|1158|386|111|131|53	2410|295	1.56	0.4592812	2	0.88	0.68	1.15	1.07	0.76	1.52
STAGE3	7	0.414|0.421	1263|1694|645|173|269|89	3602|531	2.45	0.2941151	2	1.16	0.95	1.42	1.01	0.77	1.32
NHS2	16	0.399|0.402	436|540|199|32|46|14	1175|92	0.58	0.7497147	2	1.16	0.73	1.85	0.96	0.50	1.84
PBCS2	16	0.424|0.413	593|833|328|117|165|58	1754|340	0.51	0.7744736	2	1.00	0.77	1.30	0.90	0.64	1.26
WHS	2	0.414|0.465	234|321|118|24|58|17	673|99	4.95	0.0840442	2	1.76	1.06	2.92	1.40	0.73	2.72
PBCS 1+2	13	0.421|0.435	767|1079|410|171|253|103	2256|527	0.74	0.6896753	2	1.05	0.85	1.30	1.13	0.86	1.48

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.156|0.162	6502|2482|193|925|353|36	9177|1314	2.18	0.335893	2	1.00	0.88	1.14	1.31	0.91	1.88
NHS	19	0.159|0.164	807|306|28|129|48|6	1141|183	0.44	0.8027624	2	0.98	0.69	1.40	1.34	0.54	3.30
STAGE1-2	4	0.156|0.176	3940|1525|106|533|223|26	5571|782	7.64	0.0219197	2	1.08	0.91	1.28	1.81	1.17	2.81
STAGE2	3	0.155|0.179	3133|1219|78|404|175|20	4430|599	8.10	0.0174351	2	1.11	0.92	1.35	1.99	1.20	3.29
CPSII	3	0.173|0.183	368|161|13|29|9|3	542|41	4.19	0.1230197	2	0.71	0.33	1.53	2.93	0.79	10.86

hom OR 95% CI

PBCS 1+2	17	0.362|0.371	925|1029|304|215|239|78	2258|532	0.52	0.7697705	2	1.00	0.81	1.23	1.10	0.83	1.47
Locus	Alleles	Chr	Location	Neighborhood									
rs37936	A|G	7q21.11		79806994									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.384|0.370	3487|4138|1398|521|572|187	9023|1280	2.13	0.3452229	2	0.93	0.81	1.05	0.90	0.75	1.07
NHS	4	0.399|0.369	403|541|177|77|68|31	1121|176	5.82	0.0545566	2	0.66	0.46	0.93	0.92	0.58	1.44
STAGE1-2	19	0.398|0.374	1839|2287|832|233|255|88	4958|576	2.64	0.2665316	2	0.88	0.73	1.06	0.83	0.64	1.08
STAGE2	17	0.398|0.376	1436|1746|655|156|187|57	3837|400	2.08	0.3539259	2	0.99	0.79	1.23	0.80	0.58	1.10
CPSII	23	0.387|0.263	199|251|79|19|21|0	529|40									
PLCO	17	0.378|0.396	379|431|146|26|35|11	956|72	0.40	0.8203862	2	1.18	0.70	2.00	1.10	0.53	2.28
WHI	17	0.409|0.387	858|1064|430|111|131|46	2352|288	1.06	0.5885608	2	0.95	0.73	1.24	0.83	0.58	1.19
STAGE3	19	0.368|0.382	1455|1636|504|205|241|81	3595|527	0.88	0.6445903	2	1.05	0.86	1.28	1.14	0.87	1.50
NHS2	7	0.371|0.422	475|529|171|33|38|19	1175|90	2.83	0.2424538	2	1.03	0.64	1.68	1.60	0.89	2.89
PBCS2	11	0.368|0.362	706|782|248|134|163|41	1736|338	1.64	0.4395709	2	1.10	0.86	1.41	0.87	0.60	1.27
WHS	1	0.362|0.414	274|325|85|38|40|21	684|99	5.93	0.0515765	2	0.89	0.55	1.42	1.78	0.99	3.20
PBCS 1+2	4	0.367|0.347	899|997|310|217|239|59	2206|515	2.41	0.3003864	2	0.99	0.81	1.22	0.79	0.58	1.08
Locus	Alleles	Chr	Location	Neighborhood									
rs12622050	G|A	2q11.2		100945886	NPAS2								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.225|0.223	5470|3225|447|795|444|70	9142|1309	1.24	0.5375306	2	0.95	0.84	1.07	1.08	0.83	1.40
NHS	11	0.220|0.191	694|392|55|122|52|9	1141|183	2.54	0.2813551	2	0.75	0.53	1.07	0.93	0.45	1.93
STAGE1-2	9	0.220|0.200	3355|1980|239|504|243|35	5574|782	5.99	0.0501569	2	0.82	0.69	0.96	0.97	0.68	1.41
STAGE2	13	0.221|0.203	2661|1588|184|382|191|26	4433|599	3.58	0.1667838	2	0.84	0.70	1.01	0.98	0.64	1.50
CPSII	21	0.217|0.146	323|203|16|29|12|0	542|41									
PBCS1	14	0.244|0.222	284|197|25|114|66|9	506|189	1.02	0.6015807	2	0.83	0.59	1.19	0.90	0.41	1.98
PLCO	16	0.229|0.203	577|350|48|47|24|3	975|74	0.56	0.7574316	2	0.84	0.51	1.40	0.77	0.23	2.56
WHI	13	0.213|0.198	1477|838|95|192|89|14	2410|295	2.66	0.2644077	2	0.82	0.63	1.07	1.13	0.63	2.03

hom OR 95% CI

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.394|0.385	2956|3804|1260/428|533|168	8020|1129	0.74	0.6895684	2	0.97	0.84	1.11	0.92	0.76	1.11
STAGE1-2	10	0.397|0.361	1622|2102|710/245|277|78	4434|600	5.81	0.0546737	2	0.87	0.73	1.05	0.73	0.56	0.95
STAGE2	7	0.397|0.361	1622|2102|710/245|277|78	4434|600	5.81	0.0546737	2	0.87	0.73	1.05	0.73	0.56	0.95
CPSII	15	0.394|0.369	201|256|86/18|17|7	543|42	0.74	0.6894743	2	0.74	0.37	1.48	0.91	0.37	2.26
PBCS1	8	0.409|0.384	176|246|84/67|99|23	506|189	2.17	0.3386605	2	1.06	0.73	1.52	0.72	0.42	1.23
PLCO	10	0.393|0.338	355|474|146/30|38|6	975|74	2.66	0.2640763	2	0.95	0.58	1.56	0.49	0.20	1.19
WHI	3	0.397|0.351	890|1126|394/130|123|42	2410|295	5.72	0.0573547	2	0.75	0.58	0.97	0.73	0.51	1.05
STAGE3	9	0.390|0.412	1336|1703|550/183|257|90	3589|530	1.83	0.4002932	2	1.10	0.90	1.35	1.19	0.91	1.57
NHS2	2	0.384|0.439	446|528|178/33|35|22	1152|90	5.17	0.0753395	2	0.90	0.55	1.47	1.67	0.95	2.94
PBCS2	9	0.399|0.411	621|858|268/111|181|50	1747|342	1.71	0.4247607	2	1.18	0.91	1.53	1.04	0.73	1.50
WHS	18	0.380|0.393	269|317|104/39|41|18	690|98	0.93	0.626732	2	0.89	0.56	1.42	1.19	0.65	2.18
PBCS 1+2	3	0.402|0.401	795|1103|352/178|279|73	2250|530	2.49	0.2883643	2	1.13	0.92	1.39	0.93	0.69	1.25

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.161|0.164	6467|2446|251/915|363|34	9164|1312	0.61	0.7365229	2	1.05	0.92	1.19	0.96	0.66	1.38
NHS	14	0.151|0.172	814|310|17/125|53|5	1141|183	1.85	0.3956473	2	1.11	0.79	1.58	1.92	0.69	5.28
STAGE1-2	5	0.151|0.173	4007|1454|114/538|219|26	5575|783	6.97	0.0307022	2	1.12	0.95	1.33	1.70	1.10	2.63
STAGE2	8	0.151|0.173	3193|1144|97/413|166|21	4434|600	5.34	0.0694085	2	1.12	0.93	1.36	1.67	1.03	2.71
CPSII	12	0.159|0.190	383|147|13/28|12|2	543|42	0.97	0.616419	2	1.12	0.55	2.25	2.10	0.45	9.79
PBCS1	2	0.191|0.251	335|149|22/107|69|13	506|189	5.93	0.0516211	2	1.45	1.01	2.08	1.85	0.90	3.80
PLCO	15	0.144|0.122	714|241|20/57|16|1	975|74	0.57	0.7511381	2	0.83	0.47	1.48	0.63	0.08	4.75
WHI	22	0.143|0.134	1761|607|42/221|69|5	2410|295	0.47	0.7925099	2	0.91	0.68	1.21	0.95	0.37	2.42
STAGE3	1	0.176|0.151	2460|993|137/377|144|8	3590|529	7.49	0.0236639	2	0.95	0.77	1.16	0.38	0.19	0.78
NHS2	23	0.170|0.148	810|306|44/62|26|0	1160|88									
PBCS2	1	0.190|0.156	1158|519|73/243|93|7	1750|343	4.98	0.0830531	2	0.85	0.66	1.11	0.46	0.21	1.00

hom OR 95% CI

STAGE2	10	0.252|0.277	2473|1688|272|316|234|49	4433|599	4.47	0.1071336	2	1.08	0.91	1.30	1.41	1.02	1.95
CPSII	8	0.247|0.310	309|198|35|21|16|5	542|42	2.05	0.3581283	2	1.19	0.61	2.33	2.10	0.75	5.92
PBCS1	20	0.246|0.250	293|177|36|106|70|12	506|188	0.36	0.8365396	2	1.09	0.77	1.56	0.92	0.46	1.84
PLCO	3	0.230|0.257	569|364|42|44|22|8	975|74	7.20	0.0273587	2	0.78	0.46	1.33	2.46	1.09	5.57
WHI	12	0.263|0.295	1302|949|159|145|126|24	2410|295	2.82	0.244056	2	1.19	0.93	1.54	1.36	0.85	2.15
STAGE3	18	0.271|0.257	1940|1371|290|294|198|37	3601|529	0.95	0.6216378	2	0.95	0.79	1.16	0.84	0.59	1.21
NHS2	22	0.270|0.278	638|417|105|48|31|9	1160|88	0.14	0.933018	2	0.99	0.62	1.58	1.14	0.54	2.39
PBCS2	4	0.273|0.244	926|696|131|198|121|23	1753|342	2.96	0.2275448	2	0.81	0.64	1.04	0.82	0.51	1.31
WHS	7	0.266|0.283	376|258|54|48|46|5	688|99	3.32	0.1905755	2	1.40	0.90	2.16	0.73	0.28	1.90
PBCS 1+2	6	0.267|0.245	1219|869|167|303|191|34	2255|528	2.05	0.3593652	2	0.88	0.72	1.08	0.82	0.55	1.21

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.259|0.262	2233|1539|281|383|276|47	4053|706	0.34	0.8424114	2	1.05	0.88	1.24	0.98	0.70	1.35
STAGE3	15	0.259|0.245	1977|1345|254|298|198|30	3576|526	1.45	0.4837916	2	0.98	0.81	1.18	0.78	0.53	1.17
NHS2	12	0.255|0.262	637|430|76|49|29|8	1143|86	1.17	0.5566541	2	0.88	0.55	1.41	1.37	0.62	3.00
PBCS2	3	0.259|0.235	969|667|121|196|130|15	1757|341	3.01	0.2223184	2	0.96	0.76	1.23	0.61	0.35	1.07
WHS	20	0.268|0.268	371|248|57|53|39|7	676|99	0.39	0.821471	2	1.10	0.71	1.72	0.86	0.37	1.98
PBCS 1+2	19	0.259|0.261	1225|861|148|281|208|32	2234|521	0.42	0.8100147	2	1.05	0.86	1.29	0.94	0.63	1.41

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.395|0.399	3394|4265|1474|478|610|215	9133|1303	0.17	0.9207136	2	1.02	0.89	1.15	1.04	0.87	1.23
NHS	17	0.388|0.412	425|540|170|65|84|33	1135|182	1.21	0.5472985	2	1.02	0.72	1.44	1.27	0.81	2.00
STAGE1-2	22	0.401|0.407	2022|2614|919|271|383|126	5555|780	1.19	0.5525688	2	1.09	0.93	1.29	1.02	0.82	1.28

hom OR 95% CI

unadj_trend

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.399|0.439	478|610|215|1655|2556|1017	1303|5228	13.39	2.53E-04	1	1.18	1.08	1.28	1.38	1.16	1.65
NHS	3	0.412|0.448	65|84|33|238|411|155	182|804	1.61	0.2038633	1	1.16	0.92	1.47	1.35	0.85	2.16
STAGE1-2	1	0.407|0.441	271|383|126|1124|1831|695	780|3650	6.21	0.0126829	1	1.15	1.03	1.29	1.33	1.06	1.66
STAGE2	1	0.406|0.439	206|299|93|886|1420|540	598|2846	4.65	0.03114	1	1.15	1.01	1.31	1.32	1.03	1.71
CPSII	1	0.524|0.405	8|24|10|108|159|48	42|315	4.56	0.0327818	1	0.60	0.37	0.96	0.36	0.14	0.93
PBCS1	9	0.392|0.407	67|96|26|124|171|58	189|353	0.24	0.6271678	1	1.07	0.82	1.38	1.14	0.68	1.91
PLCO	15	0.411|0.427	26|34|13|140|232|75	73|447	0.14	0.7046061	1	1.07	0.75	1.54	1.15	0.56	2.38
WHI	1	0.396|0.455	105|145|44|514|858|359	294|1731	7.09	0.0077679	1	1.27	1.07	1.52	1.62	1.14	2.32
STAGE3	1	0.387|0.434	207|227|89|531|725|322	523|1578	6.52	0.0106382	1	1.20	1.04	1.38	1.43	1.09	1.89
NHS2	18	0.450|0.440	29|41|20|114|152|73	90|339	0.06	0.8094536	1	0.96	0.70	1.32	0.93	0.49	1.74
PBCS2	6	0.372|0.410	137|149|51|246|324|121	337|691	2.51	0.1129798	1	1.16	0.96	1.40	1.35	0.93	1.96
WHS	3	0.380|0.461	41|37|18|171|249|128	96|548	3.89	0.0486311	1	1.35	1.00	1.83	1.83	1.00	3.34
PBCS 1+2	2	0.379|0.409	204|245|77|370|495|179	526|1044	2.45	0.1172055	1	1.13	0.97	1.31	1.27	0.94	1.72

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.221|0.243	800|446|67|3042|1901|333	1313|5276	5.69	0.0170562	1	1.13	1.02	1.25	1.28	1.04	1.57
NHS	14	0.246|0.253	108|60|15|451|303|53	183|807	0.09	0.768301	1	1.04	0.80	1.35	1.08	0.64	1.82
STAGE1-2	3	0.227|0.249	473|265|45|2095|1316|253	783|3664	3.24	0.0720145	1	1.12	0.99	1.28	1.26	0.98	1.63
STAGE2	3	0.221|0.247	365|205|30|1644|1013|200	600|2857	3.63	0.0568978	1	1.15	1.00	1.33	1.33	0.99	1.78

hom OR 95% CI

rs12622050	G|A	2q11.2	100945886 NPAS2												
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	4	0.223|0.208	795|444|70|3307|1695|246	1309|5248	2.66	0.1027384	1	0.92	0.83	1.02	0.84	0.69	1.03		
NHS	19	0.191|0.189	122|52|9|529|251|27	183|807	0.01	0.9198816	1	0.99	0.74	1.31	0.97	0.55	1.73		
STAGE1-2	23	0.200|0.200	504|243|35|2361|1141|162	782|3664	0.00	0.9851776	1	1.00	0.87	1.14	1.00	0.76	1.31		
STAGE2	23	0.203|0.203	382|191|26|1832|890|135	599|2857	0.00	0.9894318	1	1.00	0.86	1.17	1.00	0.74	1.36		
CPSII	5	0.146|0.213	29|12|0|201|94|20	41|315	1.80	0.1792826	1	1.53	0.82	2.84	2.33	0.67	8.08		
PBCS1	5	0.222|0.249	114|66|9|204|121|27	189|352	0.89	0.344647	1	1.15	0.86	1.54	1.32	0.74	2.36		
PLCO	20	0.203|0.195	47|24|3|288|145|15	74|448	0.05	0.8317723	1	0.95	0.61	1.48	0.91	0.38	2.19		
WHI	18	0.198|0.194	192|89|14|1139|530|73	295|1742	0.06	0.8111826	1	0.97	0.79	1.21	0.95	0.62	1.46		
STAGE3	4	0.257|0.227	291|201|35|947|555|83	527|1585	3.86	0.049454	1	0.85	0.72	1.00	0.72	0.52	1.00		
NHS2	17	0.206|0.215	53|29|3|210|117|15	85|342	0.07	0.7949841	1	1.06	0.70	1.61	1.12	0.48	2.58		
PBCS2	5	0.278|0.245	177|141|25|402|254|45	343|701	2.62	0.1053411	1	0.84	0.69	1.04	0.71	0.47	1.07		
WHS	17	0.227|0.212	61|31|7|335|184|23	99|542	0.23	0.6349787	1	0.92	0.64	1.32	0.84	0.41	1.73		
PBCS 1+2	13	0.258|0.247	291|207|34|605|374|73	532|1052	0.47	0.4932279	1	0.94	0.80	1.11	0.89	0.64	1.24		
Locus	Alleles	Chr	Location	Neighborhood											
rs7936636	C|T	11p11.2		44397546											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	5	0.234|0.249	773|464|75|2989|1934|347	1312|5270	2.62	0.105839	1	1.09	0.98	1.20	1.18	0.97	1.44		
NHS	5	0.219|0.247	110|66|7|470|276|61	183|807	1.21	0.2713948	1	1.16	0.89	1.51	1.35	0.79	2.29		
STAGE1-2	5	0.226|0.245	474|264|45|2117|1303|246	783|3666	2.39	0.1222858	1	1.11	0.97	1.26	1.22	0.95	1.58		
STAGE2	7	0.228|0.244	364|198|38|1647|1027|185	600|2859	1.34	0.24734	1	1.09	0.94	1.26	1.19	0.89	1.59		
CPSII	9	0.274|0.222	23|15|4|197|98|21	42|316	1.05	0.3064476	1	0.78	0.48	1.26	0.60	0.23	1.60		
PBCS1	19	0.228|0.229	115|62|12|212|119|21	189|352	0.00	0.9656885	1	1.01	0.75	1.35	1.01	0.57	1.81		

hom OR 95% CI

STAGE1-3	7	0.131|0.121	1001|279|33|4075|1120|78	1313|5273	2.07	0.1503945	1	0.91	0.80	1.03	0.83	0.65	1.07
NHS	1	0.156|0.121	127|55|1|624|169|13	183|806	3.31	0.0690526	1	0.74	0.54	1.02	0.55	0.29	1.05
STAGE1-2	2	0.143|0.121	581|180|22|2831|783|52	783|3666	5.69	0.0170217	1	0.83	0.71	0.97	0.68	0.50	0.93
STAGE2	4	0.139|0.121	454|125|21|2207|614|39	600|2860	2.97	0.0850757	1	0.85	0.71	1.02	0.73	0.51	1.05
CPSII	15	0.131|0.114	33|7|2|250|60|6	42|316	0.19	0.6604261	1	0.86	0.45	1.66	0.75	0.20	2.74
PBCS1	2	0.135|0.110	142|43|4|278|72|3	189|353	1.42	0.2335065	1	0.79	0.54	1.16	0.63	0.29	1.35
PLCO	4	0.162|0.116	57|10|7|348|96|4	74|448	2.38	0.1232912	1	0.69	0.43	1.11	0.48	0.19	1.23
WHI	15	0.137|0.126	222|65|8|1331|386|26	295|1743	0.61	0.433673	1	0.90	0.70	1.17	0.82	0.49	1.36
STAGE3	17	0.115|0.122	420|100|11|1244|340|26	531|1610	0.35	0.556083	1	1.07	0.86	1.32	1.14	0.74	1.74
NHS2	13	0.132|0.117	71|16|4|272|72|5	91|349	0.27	0.6052523	1	0.88	0.55	1.42	0.78	0.30	2.01
PBCS2	10	0.102|0.119	276|62|4|554|145|12	342|711	1.22	0.2688138	1	1.18	0.88	1.58	1.39	0.78	2.49
WHS	15	0.143|0.128	73|22|3|418|123|9	98|550	0.31	0.5765855	1	0.88	0.57	1.36	0.78	0.33	1.86
PBCS 1+2	23	0.113|0.115	418|104|8|832|214|15	530|1061	0.02	0.8826962	1	1.02	0.81	1.28	1.04	0.65	1.64

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.262|0.282	383|276|47|991|791|148	706|1930	2.00	0.1569693	1	1.11	0.96	1.27	1.22	0.93	1.61
STAGE3	3	0.245|0.277	298|198|30|830|650|118	526|1598	4.17	0.0410873	1	1.18	1.01	1.39	1.40	1.01	1.94
NHS2	12	0.262|0.283	49|29|8|181|137|30	86|348	0.30	0.5838894	1	1.11	0.77	1.60	1.23	0.59	2.57
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	7.09	0.0077615	1	1.34	1.08	1.67	1.81	1.17	2.79
WHS	20	0.268|0.259	53|39|7|299|205|38	99|542	0.06	0.8044001	1	0.96	0.68	1.35	0.92	0.46	1.81
PBCS 1+2	1	0.261|0.293	281|208|32|511|449|80	521|1040	3.60	0.0579455	1	1.18	0.99	1.40	1.39	0.99	1.96

Locus Alleles Chr Location Neighborhood

hom OR 95% CI

PBCS2	16	0.397|0.386	122|171|51|266|333|105	344|704	0.24	0.6210363	1	0.95	0.79	1.15	0.91	0.62	1.32
WHS	13	0.385|0.410	38|47|15|185|282|86	100|553	0.48	0.4897434	1	1.12	0.81	1.53	1.25	0.66	2.35
PBCS 1+2	18	0.386|0.380	196|261|75|407|496|153	532|1056	0.13	0.7188577	1	0.97	0.84	1.13	0.95	0.70	1.28

Locus rs3817198 Alleles T|C Chr 11p15.5 Location Neighborhood 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.323|0.335	592|587|129|2368|2287|625	1308|5280	1.32	0.2502952	1	1.05	0.96	1.15	1.11	0.93	1.33
NHS	6	0.308|0.328	82|88|12|373|339|95	182|807	0.54	0.4632186	1	1.10	0.86	1.40	1.20	0.74	1.96
STAGE1-2	21	0.335|0.337	336|366|78|1631|1595|436	780|3662	0.03	0.8667912	1	1.01	0.90	1.13	1.02	0.81	1.28
STAGE2	19	0.343|0.339	254|278|66|1258|1256|341	598|2855	0.05	0.8220666	1	0.99	0.86	1.12	0.97	0.75	1.26
CPSII	13	0.381|0.340	16|20|6|139|138|38	42|315	0.55	0.4591504	1	0.84	0.53	1.34	0.70	0.28	1.79
PBCS1	18	0.321|0.326	84|86|17|161|150|39	187|350	0.03	0.8710312	1	1.02	0.78	1.34	1.05	0.61	1.79
PLCO	10	0.365|0.334	28|38|8|190|215|42	74|447	0.57	0.4493308	1	0.86	0.59	1.26	0.75	0.35	1.59
WHI	21	0.346|0.343	126|134|35|768|753|222	295|1743	0.01	0.9115703	1	0.99	0.83	1.19	0.98	0.68	1.41
STAGE3	9	0.308|0.331	255|222|52|734|693|189	529|1616	1.91	0.1673563	1	1.11	0.96	1.29	1.23	0.92	1.65
NHS2	2	0.264|0.331	52|30|9|162|155|41	91|358	2.89	0.0891744	1	1.36	0.95	1.95	1.86	0.91	3.80
PBCS2	22	0.333|0.330	154|148|40|326|301|84	342|711	0.02	0.8747063	1	0.98	0.81	1.19	0.97	0.66	1.42
WHS	2	0.260|0.334	49|44|3|246|237|64	96|547	4.01	0.0453537	1	1.42	1.01	2.01	2.03	1.01	4.06
PBCS 1+2	24	0.327|0.327	239|233|56|490|450|123	528|1063	0.00	0.9700755	1	1.00	0.86	1.17	1.01	0.74	1.37

Locus rs17740709 Alleles A|G Chr 12q21.31 Location Neighborhood 81947471 TMTC2

hom OR 95% CI

Locus	Alleles	Chr	Location	Neighborhood											
rs2391406	T|G	13q33.3		106586873											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	14	0.359|0.367	521|636|152|2088|2463|694	1309|5245	0.60	0.4392051	1	1.04	0.95	1.13	1.07	0.90	1.29		
NHS	12	0.358|0.366	72|91|20|323|377|107	183|807	0.09	0.7649385	1	1.04	0.82	1.32	1.08	0.67	1.73		
STAGE1-2	12	0.355|0.363	314|380|87|1453|1759|451	781|3663	0.43	0.5139465	1	1.04	0.93	1.17	1.08	0.86	1.36		
STAGE2	15	0.354|0.362	242|289|67|1130|1382|344	598|2856	0.34	0.5584328	1	1.04	0.91	1.19	1.08	0.83	1.41		
CPSII	7	0.402|0.339	12|25|4|132|150|31	41|313	1.44	0.2308214	1	0.74	0.45	1.21	0.54	0.20	1.48		
PBCS1	10	0.362|0.375	78|84|26|125|190|37	188|352	0.20	0.6516887	1	1.06	0.81	1.40	1.13	0.66	1.95		
PLCO	14	0.345|0.360	29|39|6|180|213|55	74|448	0.15	0.7014692	1	1.08	0.74	1.57	1.16	0.55	2.45		
WHI	11	0.344|0.365	123|141|31|693|829|221	295|1743	0.95	0.3294828	1	1.10	0.91	1.32	1.20	0.83	1.75		
STAGE3	16	0.365|0.376	207|255|65|635|705|243	527|1583	0.39	0.5316013	1	1.05	0.91	1.21	1.10	0.82	1.46		
NHS2	6	0.348|0.402	37|42|10|129|162|60	89|351	1.66	0.1980689	1	1.25	0.89	1.76	1.56	0.79	3.08		
PBCS2	24	0.382|0.381	126|171|45|275|321|108	342|704	0.00	0.9934236	1	1.00	0.83	1.21	1.00	0.69	1.45		
WHS	12	0.323|0.352	44|42|10|231|222|75	96|528	0.58	0.4469854	1	1.13	0.82	1.55	1.28	0.68	2.42		
PBCS 1+2	21	0.375|0.379	204|256|71|400|510|145	531|1055	0.06	0.8075242	1	1.02	0.87	1.19	1.04	0.76	1.41		

Locus	Alleles	Chr	Location	Neighborhood											
rs11077820	T|C	17q25.1		71966263	UBE2O,AANAT										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	15	0.359|0.367	543|598|173|2153|2342|760	1314|5255	0.60	0.4401695	1	1.04	0.95	1.13	1.07	0.90	1.28		

hom OR 95% CI

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.249|0.243	734|499|77|3003|1970|297	1310|5270	0.41	0.5210439	1	0.97	0.88	1.07	0.94	0.77	1.14
NHS	20	0.260|0.262	101|69|13|433|325|49	183|807	0.01	0.9199331	1	1.01	0.78	1.32	1.03	0.61	1.74
STAGE1-2	11	0.255|0.247	428|310|45|2072|1377|218	783|3667	0.47	0.491162	1	0.96	0.84	1.09	0.92	0.71	1.18
STAGE2	8	0.254|0.243	327|241|32|1639|1052|169	600|2860	0.67	0.4113562	1	0.94	0.82	1.09	0.89	0.66	1.18
CPSII	14	0.250|0.222	23|17|2|193|106|17	42|316	0.34	0.5597335	1	0.86	0.51	1.45	0.73	0.26	2.09
PBCS1	17	0.235|0.231	106|77|6|213|117|23	189|353	0.03	0.8649575	1	0.97	0.73	1.31	0.95	0.53	1.72
PLCO	17	0.264|0.253	38|33|3|247|175|26	74|448	0.07	0.7874276	1	0.95	0.63	1.42	0.89	0.40	2.01
WHI	12	0.264|0.247	160|114|21|986|654|103	295|1743	0.85	0.3562168	1	0.91	0.75	1.11	0.83	0.56	1.23
STAGE3	21	0.241|0.235	306|190|32|931|595|80	528|1606	0.13	0.7138456	1	0.97	0.82	1.14	0.94	0.68	1.31
NHS2	16	0.230|0.244	54|26|7|196|131|19	87|346	0.15	0.6942542	1	1.08	0.73	1.60	1.17	0.53	2.56
PBCS2	19	0.230|0.225	202|124|17|427|240|39	343|706	0.07	0.7943547	1	0.97	0.78	1.21	0.94	0.61	1.45
WHS	7	0.286|0.242	50|40|8|308|224|22	98|554	1.87	0.1713057	1	0.78	0.55	1.11	0.61	0.30	1.24
PBCS 1+2	16	0.232|0.226	308|200|23|640|355|61	531|1056	0.13	0.7146185	1	0.97	0.81	1.15	0.94	0.66	1.33

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.024|0.026	1251|59|2|4997|257|9	1312|5263	0.36	0.5478617	1	1.09	0.83	1.43	1.18	0.69	2.04
NHS	8	0.022|0.026	175|8|0|765|42|0	183|807	0.22	0.6422698	1	1.20	0.55	2.60	1.44	0.31	6.78
STAGE1-2	10	0.022|0.025	749|34|0|3487|178|2	783|3667	0.53	0.4673041	1	1.15	0.79	1.66	1.32	0.63	2.77

hom OR 95% CI

STAGE1-2	20	0.427|0.429	248|402|133|1213|1761|692	783|3666	0.03	0.8634978	1	1.01	0.90	1.13	1.02	0.82	1.27
STAGE2	22	0.425|0.427	193|304|103|952|1373|534	600|2859	0.01	0.904253	1	1.01	0.89	1.14	1.02	0.79	1.30
CPSII	19	0.429|0.440	15|18|9|101|152|63	42|316	0.04	0.8471834	1	1.05	0.67	1.64	1.09	0.44	2.70
PBCS1	7	0.439|0.457	57|98|34|104|174|74	189|352	0.34	0.5625296	1	1.08	0.84	1.39	1.16	0.70	1.93
PLCO	5	0.453|0.391	22|37|15|167|212|69	74|448	2.03	0.154338	1	0.78	0.55	1.10	0.60	0.30	1.21
WHI	13	0.408|0.428	99|151|45|580|835|328	295|1743	0.76	0.3844313	1	1.08	0.91	1.29	1.17	0.82	1.66
STAGE3	22	0.450|0.444	164|252|111|493|802|313	527|1608	0.10	0.747313	1	0.98	0.85	1.12	0.96	0.72	1.26
NHS2	3	0.500|0.429	21|47|21|114|168|65	89|347	2.86	0.0909365	1	0.75	0.54	1.05	0.57	0.29	1.10
PBCS2	12	0.432|0.451	115|156|69|211|357|141	340|709	0.62	0.4325401	1	1.08	0.90	1.29	1.16	0.80	1.67
WHS	16	0.464|0.445	28|49|21|168|277|107	98|552	0.26	0.6096394	1	0.92	0.68	1.25	0.85	0.46	1.57
PBCS 1+2	10	0.436|0.452	171|254|103|315|531|214	528|1060	0.80	0.37099	1	1.07	0.92	1.24	1.15	0.85	1.54

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.108|0.109	1047|249|17|4185|1048|54	1313|5287	0.05	0.8178044	1	1.02	0.89	1.17	1.03	0.78	1.36
NHS	7	0.117|0.108	145|33|5|642|155|10	183|807	0.24	0.6224405	1	0.92	0.65	1.30	0.84	0.42	1.69
STAGE1-2	16	0.107|0.111	626|146|11|2898|724|43	783|3665	0.14	0.7112003	1	1.03	0.87	1.23	1.07	0.75	1.52
STAGE2	11	0.104|0.111	481|113|6|2256|569|33	600|2858	0.49	0.4838183	1	1.08	0.88	1.32	1.16	0.77	1.74
CPSII	8	0.071|0.111	37|4|1|250|62|4	42|316	1.18	0.278287	1	1.60	0.68	3.78	2.57	0.46	14.31
PBCS1	3	0.101|0.123	152|36|1|270|79|4	189|353	1.30	0.2550826	1	1.27	0.84	1.92	1.61	0.71	3.67

hom OR 95% CI

PLCO	1	0.230|0.160	41|32|1|318|117|13	74|448	4.50	0.0339221	1	0.63	0.41	0.97	0.40	0.17	0.94
WHI	5	0.186|0.158	200|80|15|1244|447|51	295|1742	2.96	0.0851514	1	0.82	0.66	1.03	0.68	0.44	1.06
STAGE3	6	0.141|0.160	392|130|10|1133|431|41	532|1605	2.17	0.1410471	1	1.16	0.95	1.41	1.34	0.91	1.99
NHS2	23	0.154|0.153	65|24|2|254|88|10	91|352	0.00	0.9885213	1	1.00	0.64	1.56	0.99	0.41	2.42
PBCS2	8	0.136|0.158	254|81|6|496|184|18	341|698	1.61	0.2046553	1	1.18	0.91	1.54	1.40	0.83	2.37
WHS	11	0.145|0.167	73|25|2|383|159|13	100|555	0.60	0.4390887	1	1.18	0.77	1.82	1.40	0.59	3.32
PBCS 1+2	6	0.141|0.157	388|135|7|755|260|35	530|1050	1.46	0.2262763	1	1.14	0.92	1.40	1.29	0.85	1.95

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.385|0.386	428|533|168|1679|2133|657	1129|4469	0.00	0.9440175	1	1.00	0.91	1.10	1.01	0.83	1.22
STAGE1-2	6	0.361|0.384	245|277|78|1078|1366|416	600|2860	2.33	0.127	1	1.11	0.97	1.26	1.22	0.94	1.59
STAGE2	6	0.361|0.384	245|277|78|1078|1366|416	600|2860	2.33	0.127	1	1.11	0.97	1.26	1.22	0.94	1.59
CPSII	10	0.369|0.413	18|17|7|96|179|41	42|316	0.68	0.4083213	1	1.24	0.75	2.05	1.53	0.56	4.20
PBCS1	16	0.384|0.375	67|99|23|140|161|52	189|353	0.07	0.7876051	1	0.96	0.74	1.25	0.93	0.55	1.57
PLCO	6	0.338|0.394	30|38|6|170|203|75	74|448	1.65	0.1995048	1	1.27	0.88	1.82	1.61	0.78	3.31
WHI	8	0.351|0.378	130|123|42|672|823|248	295|1743	1.62	0.203473	1	1.13	0.94	1.35	1.27	0.88	1.82
STAGE3	8	0.412|0.388	183|257|90|601|769|241	530|1611	1.93	0.1648011	1	0.90	0.79	1.04	0.82	0.62	1.09
NHS2	1	0.439|0.369	33|35|22|134|171|43	90|348	2.92	0.0876378	1	0.75	0.54	1.04	0.56	0.29	1.09

hom OR 95% CI

NHS2	11	0.349|0.366	36|40|10|147|152|53	86|352	0.66	0.4166072	1	1.35	0.66	2.77
PBCS2	2	0.335|0.365	146|160|34|286|322|96	340|704	2.78	0.0953901	1	1.42	0.94	2.15
WHS	5	0.321|0.394	44|45|9|195|269|80	98|544	2.12	0.1453241	1	1.71	0.83	3.52
PBCS 1+2	5	0.342|0.365	229|238|62|432|476|147	529|1055	1.51	0.2195817	1	1.22	0.89	1.67

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	3	0.399|0.439	478|610|215|1655|2556|1017	1303|5228	5.94	0.0147934	1	1.22	1.04	1.44
NHS	15	0.412|0.448	65|84|33|238|411|155	182|804	0.13	0.7221251	1	1.08	0.71	1.63
STAGE1-2	2	0.407|0.441	271|383|126|1124|1831|695	780|3650	3.55	0.0596037	1	1.22	0.99	1.50
STAGE2	2	0.406|0.439	206|299|93|886|1420|540	598|2846	3.86	0.0495164	1	1.27	1.00	1.62
CPSII	1	0.524|0.405	8|24|10|108|159|48	42|315	2.00	0.1572011	1	0.58	0.27	1.25
PBCS1	14	0.392|0.407	67|96|26|124|171|58	189|353	0.67	0.4123345	1	1.23	0.75	2.03
PLCO	19	0.411|0.427	26|34|13|140|232|75	73|447	0.05	0.8277862	1	0.93	0.49	1.78
WHI	2	0.396|0.455	105|145|44|514|858|359	294|1731	5.26	0.0218816	1	1.49	1.06	2.09
STAGE3	4	0.387|0.434	207|227|89|531|725|322	523|1578	2.87	0.0904653	1	1.25	0.97	1.62
NHS2	22	0.450|0.440	29|41|20|114|152|73	90|339	0.02	0.8879734	1	0.96	0.55	1.68
PBCS2	7	0.372|0.410	137|149|51|246|324|121	337|691	0.92	0.3377601	1	1.19	0.83	1.70

hom OR 95% l

PBCS 1+2 14 0.327|0.327 239|233|56|490|450|123 528|1063 0.33 0.5662589 1 1.10 0.79 1.54

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	6	0.221|0.243	800|446|67|3042|1901|333	1313|5276	2.69	0.100724	1	1.25	0.96	1.64
NHS	12	0.246|0.253	108|60|15|451|303|53	183|807	0.62	0.4314343	1	0.79	0.43	1.43
STAGE1-2	7	0.227|0.249	473|265|45|2095|1316|253	783|3664	1.38	0.2395144	1	1.22	0.88	1.69
STAGE2	3	0.221|0.247	365|205|30|1644|1013|200	600|2857	3.19	0.073872	1	1.43	0.96	2.12
CPSII	18	0.226|0.241	26|13|3|186|108|22	42|316	0.00	0.9655414	1	0.97	0.28	3.40
PBCS1	18	0.272|0.272	99|77|13|186|139|26	189|351	0.05	0.8207719	1	1.08	0.54	2.16
PLCO	18	0.169|0.232	52|19|3|261|166|21	74|448	0.06	0.8095283	1	1.16	0.34	4.00
WHI	1	0.200|0.247	188|96|11|1011|600|131	295|1742	5.59	0.018047	1	2.10	1.12	3.93
STAGE3	17	0.212|0.231	327|181|22|948|587|79	530|1614	0.49	0.4831988	1	1.19	0.73	1.93
NHS2	10	0.261|0.232	49|35|6|205|131|16	90|352	0.68	0.4089424	1	0.67	0.25	1.76
PBCS2	3	0.195|0.233	219|111|11|417|254|38	341|709	2.36	0.1247522	1	1.70	0.86	3.37
WHS	20	0.227|0.228	59|35|5|326|202|25	99|553	0.05	0.8167877	1	0.89	0.33	2.38
PBCS 1+2	2	0.223|0.246	318|188|24|602|391|65	530|1058	1.74	0.1869294	1	1.38	0.85	2.23

hom OR 95% CI_l

rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	9	0.359|0.367	543|598|173|2153|2342|760	1314|5255	1.45	0.2285284	1	1.12	0.93	1.33
NHS	18	0.374|0.374	73|83|27|329|353|125	183|807	0.06	0.8032534	1	1.06	0.67	1.66
STAGE1-2	5	0.361|0.368	318|364|101|1502|1623|538	783|3663	1.68	0.1954078	1	1.16	0.93	1.46
STAGE2	5	0.357|0.367	245|281|74|1173|1270|413	600|2856	1.85	0.1733419	1	1.20	0.92	1.57
CPSII	12	0.357|0.359	17|20|5|131|143|42	42|316	0.06	0.8026221	1	1.13	0.42	3.05
PBCS1	10	0.381|0.334	74|86|29|160|150|43	189|353	1.07	0.3012162	1	0.77	0.46	1.27
PLCO	20	0.358|0.354	30|35|9|188|200|58	74|446	0.04	0.8412475	1	1.08	0.51	2.28
WHI	3	0.342|0.378	124|140|31|694|777|270	295|1741	5.01	0.0252669	1	1.56	1.05	2.32
STAGE3	21	0.356|0.365	225|234|72|651|720|222	531|1593	0.05	0.8276979	1	1.03	0.78	1.37
NHS2	17	0.337|0.373	43|32|14|136|163|48	89|347	0.21	0.6474946	1	0.86	0.45	1.64
PBCS2	20	0.366|0.382	141|153|49|269|335|102	343|706	0.00	0.9441424	1	1.01	0.70	1.46
WHS	10	0.338|0.339	41|49|9|246|222|72	99|540	1.36	0.2434833	1	1.54	0.74	3.19
PBCS 1+2	15	0.371|0.366	215|239|78|429|484|145	532|1058	0.27	0.6042597	1	0.92	0.69	1.24

Locus Alleles Chr Location Neighborhood

hom OR 95% l

STAGE1-3	12	0.223|0.208	795|444|70|3307|1695|246	1309|5248	1.00	0.3184759	1	0.87	0.66	1.14
NHS	9	0.191|0.189	122|52|9|529|251|27	183|807	1.05	0.3049532	1	0.67	0.31	1.45
STAGE1-2	22	0.200|0.200	504|243|35|2361|1141|162	782|3664	0.00	0.9465864	1	0.99	0.68	1.43
STAGE2	16	0.203|0.203	382|191|26|1832|890|135	599|2857	0.16	0.684622	1	1.09	0.71	1.68
CPSII	21	0.146|0.213	29|12|0|201|94|20	41|315						
PBCS1	5	0.222|0.249	114|66|9|204|121|27	189|352	1.67	0.1956179	1	1.66	0.76	3.61
PLCO	17	0.203|0.195	47|24|3|288|145|15	74|448	0.10	0.7578696	1	0.82	0.23	2.90
WHI	16	0.198|0.194	192|89|14|1139|530|73	295|1742	0.19	0.6627648	1	0.88	0.49	1.58
STAGE3	7	0.257|0.227	291|201|35|947|555|83	527|1585	1.48	0.2238399	1	0.78	0.52	1.17
NHS2	19	0.206|0.215	53|29|3|210|117|15	85|342	0.12	0.7250508	1	1.25	0.35	4.43
PBCS2	12	0.278|0.245	177|141|25|402|254|45	343|701	0.28	0.5978974	1	0.87	0.53	1.45
WHS	8	0.227|0.212	61|31|7|335|184|23	99|542	1.50	0.2207027	1	0.58	0.24	1.40
PBCS 1+2	17	0.258|0.247	291|207|34|605|374|73	532|1052	0.17	0.6813879	1	1.09	0.72	1.66

Locus	Alleles	Chr	Location	Neighborhood
rs7121523	G|A	11p15.4		7556781 PPFIBP2

hom OR 95% I

PBCS2	15	0.105|0.107	273|68|2|565|143|5	343|713	0.05	0.8246128	1	1.20	0.23	6.24
WHS	24	0.096|0.110	80|19|0|434|122|0	99|556	-		1	1.00	1.00	1.00
PBCS 1+2	13	0.103|0.113	425|104|3|833|222|9	532|1064	0.38	0.538761	1	1.50	0.41	5.58

Locus rs37936 Alleles A|G Chr 7q21.11 Location Neighborhood 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	16	0.370|0.367	521|572|187|2078|2378|707	1280|5163	0.72	0.3961964	1	0.93	0.78	1.10
NHS	8	0.369|0.362	77|68|31|333|343|115	176|791	1.06	0.3027554	1	0.80	0.51	1.23
STAGE1-2	8	0.374|0.363	233|255|88|1325|1468|438	576|3231	1.22	0.2699911	1	0.87	0.68	1.11
STAGE2	13	0.376|0.363	156|187|57|992|1125|323	400|2440	0.30	0.5814769	1	0.92	0.68	1.24
CPSII	23	0.263|0.355	19|21|0|131|139|41	40|311						
PLCO	21	0.396|0.372	26|35|11|181|186|69	72|436	0.01	0.9058733	1	1.04	0.52	2.08
WHI	7	0.387|0.362	111|131|46|680|800|213	288|1693	2.49	0.1145473	1	0.76	0.54	1.07
STAGE3	12	0.382|0.374	205|241|81|624|763|219	527|1606	0.99	0.3205482	1	0.87	0.66	1.15

hom OR 95% CI_l

Locus	Alleles	Chr	Location	Neighborhood							
rs3134615	G|T	1p34.2		40134653 TRIT1,MYCL1							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	19	0.249|0.243	734|499|77|3003|1970|297	1310|5270	0.11	0.7347468	1	0.96	0.74	1.24	
NHS	14	0.260|0.262	101|69|13|433|325|49	183|807	0.27	0.6029241	1	0.85	0.45	1.59	
STAGE1-2	20	0.255|0.247	428|310|45|2072|1377|218	783|3667	0.05	0.8312862	1	1.04	0.74	1.44	
STAGE2	14	0.254|0.243	327|241|32|1639|1052|169	600|2860	0.30	0.5835917	1	1.11	0.76	1.64	
CPSII	15	0.250|0.222	23|17|2|193|106|17	42|316	0.03	0.866735	1	1.14	0.25	5.11	
PBCS1	4	0.235|0.231	106|77|6|213|117|23	189|353	2.71	0.0995267	1	2.13	0.85	5.32	
PLCO	12	0.264|0.253	38|33|3|247|175|26	74|448	0.37	0.5427395	1	1.46	0.43	4.95	
WHI	12	0.264|0.247	160|114|21|986|654|103	295|1743	0.65	0.4216586	1	0.82	0.50	1.33	
STAGE3	13	0.241|0.235	306|190|32|931|595|80	528|1606	0.93	0.3346599	1	0.81	0.53	1.24	
NHS2	9	0.230|0.244	54|26|7|196|131|19	87|346	0.80	0.3699434	1	0.66	0.27	1.63	
PBCS2	13	0.230|0.225	202|124|17|427|240|39	343|706	0.15	0.701148	1	1.12	0.62	2.01	

hom OR 95% CI_l

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% l	hom OR 95% Cl_u
STAGE1-3	22	0.385|0.386	428|533|168|1679|2133|657	1129|4469	0.02	0.8794025	1	0.99	0.82	1.18
STAGE1-2	11	0.361|0.384	245|277|78|1078|1366|416	600|2860	0.97	0.3252171	1	1.14	0.88	1.48
STAGE2	8	0.361|0.384	245|277|78|1078|1366|416	600|2860	0.97	0.3252171	1	1.14	0.88	1.48
CPSII	7	0.369|0.413	18|17|7|96|179|41	42|316	0.44	0.5094254	1	0.75	0.31	1.79
PBCS1	13	0.384|0.375	67|99|23|140|161|52	189|353	0.68	0.4104708	1	1.25	0.74	2.11
PLCO	3	0.338|0.394	30|38|6|170|203|75	74|448	3.61	0.0574133	1	2.28	0.95	5.44
WHI	22	0.351|0.378	130|123|42|672|823|248	295|1743	0.00	0.9967546	1	1.00	0.70	1.42
STAGE3	9	0.412|0.388	183|257|90|601|769|241	530|1611	1.25	0.2641516	1	0.86	0.66	1.12
NHS2	1	0.439|0.369	33|35|22|134|171|43	90|348	8.27	0.0040354	1	0.44	0.24	0.78
PBCS2	10	0.411|0.398	111|181|50|263|330|118	342|711	0.67	0.4120977	1	1.16	0.81	1.66
WHS	13	0.393|0.388	39|41|18|204|268|80	98|552	0.98	0.3232353	1	0.75	0.43	1.32
PBCS 1+2	8	0.401|0.390	178|279|73|403|489|170	530|1062	1.36	0.2428145	1	1.19	0.89	1.60

hom OR 95% l

Supplementary Table 4. Results of Combined Analysis of Multi-stage Analysis of Breast Cancer with Stages 1, 2 and 3 for 24 SNPs for ER+ Cases Compared to ER- Cases

Data dictionary

Locus – dbSNP ID
 Alleles – SNP alleles, listed as major|minor
 Chr – chromosomal mapping
 Location – chromosomal location based on NCBI genome build 36.3
 Neighborhood – known protein-coding gene(s) within the vicinity, if the SNP lies within 20kb 5' of the start of transcription of the gene and 10kb 3' of the last exon.
 SUBSET – Analytic subset of the data
 Rank – p value rank relative to the 24 SNPs within each study.
 MAF – Minor allele frequency (controls|cases)
 Geno counts – genotype counts for each observed genotype (Major homozygote controls|heterozygote controls|minor homozygote controls/ Major homozygote cases|heterozygote cases|minor homozygote cases)
 Subjects – number of subjects (controls|cases)
 Score X2 – X² statistic for association by a Score test
 Score p-value – significance level for X² statistic
 df – degrees of freedom of X² statistic
 het OR – Odds ratio for the heterozygote genotype (not included for recessive models)
 het OR 95% CI_l – lower bound of the 95% confidence interval of the Odds ratio
 het OR 95% CI_u – upper bound of the 95% confidence interval of the Odds ratio

Supplementary Table results:

adj_gen0 – covariate adjusted, genotype-specific effect model
 adj_trend – covariate adjusted, trend effect model
 adj_rec – covariate adjusted, recessive effect model
 unadj_gen0 – unadjusted, genotype-specific effect model
 unadj_trend – unadjusted, trend effect model
 unadj_rec – unadjusted, recessive effect model

adj_gen0

Locus	Alleles	Chr	Location	Neighborhood											
rs11249433	T|C	1p11.2		120982136 LOC647121											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI_l	het OR 95% CI_u	hom OR	hom OR 95% CI_l	hom OR 95% CI_u		
STAGE1-3	1	0.397|0.441	474|598|209|1590|2476|993	1281|5059	10.55	0.0051129	2	1.18	1.02	1.35	1.34	1.11	1.61		
NHS	5	0.412|0.448	65|84|33|238|411|155	182|804	2.47	0.2908066	2	1.34	0.93	1.93	1.23	0.77	1.97		
STAGE1-2	2	0.402|0.443	270|373|121|1070|1756|674	764|3500	6.54	0.0379235	2	1.16	0.97	1.39	1.35	1.06	1.72		
STAGE2	4	0.399|0.442	205|289|88|832|1345|519	582|2696	5.38	0.0677939	2	1.12	0.91	1.37	1.39	1.05	1.84		
PBCS1	15	0.392|0.407	67|96|26|124|171|58	189|353	0.71	0.7017114	2	0.97	0.65	1.44	1.22	0.70	2.12		
PLCO	14	0.411|0.427	26|34|13|140|232|75	73|447	0.97	0.6148492	2	1.31	0.75	2.30	1.06	0.51	2.23		
WHI	1	0.396|0.455	105|145|44|514|857|359	294|1730	7.74	0.0208836	2	1.23	0.93	1.62	1.70	1.16	2.49		
STAGE3	3	0.388|0.436	204|225|88|520|720|319	517|1559	4.22	0.121492	2	1.20	0.96	1.50	1.32	0.98	1.78		
NHS2	22	0.453|0.446	27|40|19|107|147|72	86|326	0.07	0.9646276	2	0.93	0.53	1.62	0.96	0.49	1.86		
PBCS2	8	0.372|0.410	137|149|51|246|324|121	337|691	2.28	0.3194773	2	1.18	0.88	1.57	1.32	0.89	1.96		
WHS	2	0.383|0.462	40|36|18|167|249|126	94|542	5.97	0.0504395	2	1.78	1.07	2.94	1.75	0.94	3.25		
PBCS 1+2	7	0.379|0.409	204|245|77|370|495|179	526|1044	2.25	0.3248432	2	1.09	0.87	1.38	1.27	0.93	1.76		
Locus	Alleles	Chr	Location	Neighborhood											
rs12608723	A|G	19q13.11		38508973											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI_l	het OR 95% CI_u	hom OR	hom OR 95% CI_l	hom OR 95% CI_u		
STAGE1-3	2	0.132|0.121	984|274|33|3939|1089|75	1291|5103	8.47	0.0144555	2	0.97	0.83	1.13	0.53	0.35	0.82		
NHS	1	0.156|0.121	127|55|1|624|169|13	183|806	7.91	0.01912	2	0.63	0.44	0.91	3.03	0.39	23.66		
STAGE1-2	1	0.143|0.122	569|176|22|2710|757|49	767|3516	11.20	0.0036971	2	0.90	0.74	1.09	0.43	0.26	0.73		
STAGE2	1	0.140|0.122	442|121|21|2086|588|36	584|2710	17.30	1.76E-04	2	1.03	0.82	1.29	0.32	0.18	0.57		

PBCS1	9	0.135|0.110	142|43|4|278|72|3	189|353	2.05	0.3593345	2	0.84	0.54	1.29	0.40	0.09	1.81
PLCO	1	0.162|0.116	57|10|7|348|96|4	74|448	24.70	4.34E-06	2	1.60	0.78	3.29	0.08	0.02	0.29
WHI	10	0.137|0.126	222|65|8|1330|386|26	295|1742	2.40	0.3010898	2	1.00	0.74	1.35	0.53	0.24	1.20
STAGE3	12	0.115|0.122	415|99|11|1229|335|26	525|1590	1.22	0.544215	2	1.12	0.86	1.44	0.79	0.38	1.64
NHS2	4	0.138|0.118	67|16|4|261|69|5	87|335	3.30	0.1924519	2	1.15	0.62	2.12	0.32	0.08	1.25
PBCS2	13	0.102|0.119	276|62|4|554|145|12	342|711	1.25	0.535561	2	1.16	0.83	1.62	1.55	0.49	4.91
WHS	18	0.141|0.128	72|21|3|414|121|9	96|544	0.45	0.8003337	2	1.02	0.59	1.75	0.64	0.16	2.50
PBCS 1+2	23	0.113|0.115	418|104|8|832|214|15	530|1061	0.04	0.9787857	2	1.02	0.79	1.33	0.96	0.40	2.29

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.163|0.176	902|356|32|3497|1411|190	1290|5098	8.43	0.0147599	2	1.10	0.95	1.26	1.71	1.16	2.54
NHS	20	0.172|0.179	125|53|5|542|240|24	183|806	0.07	0.9645866	2	1.05	0.73	1.50	1.06	0.39	2.85
STAGE1-2	7	0.170|0.175	530|213|24|2412|975|129	767|3516	2.77	0.2504594	2	1.11	0.93	1.33	1.36	0.86	2.16
STAGE2	6	0.170|0.174	405|160|19|1870|735|105	584|2710	2.87	0.237774	2	1.13	0.92	1.39	1.44	0.86	2.40
PBCS1	13	0.251|0.231	107|69|13|208|127|18	189|353	1.04	0.5948531	2	0.96	0.66	1.41	1.06	0.31	1.45
PLCO	11	0.122|0.156	57|16|1|322|112|14	74|448	1.37	0.5038133	2	1.25	0.68	2.29	2.71	0.34	21.31
WHI	3	0.134|0.170	221|69|5|1216|460|66	295|1742	5.36	0.0687183	2	1.24	0.93	1.66	2.41	0.96	6.06
STAGE3	1	0.152|0.177	372|143|8|1085|437|61	523|1583	7.54	0.0230855	2	1.07	0.85	1.34	2.77	1.30	5.90
NHS2	23	0.149|0.161	59|25|0|240|79|14	84|333									
PBCS2	5	0.156|0.188	243|93|7|467|211|27	343|705	3.60	0.1653609	2	1.16	0.86	1.55	2.08	0.89	4.87
WHS	11	0.141|0.172	70|25|1|378|147|20	96|545	2.54	0.2812215	2	1.20	0.72	2.00	4.21	0.54	32.55
PBCS 1+2	15	0.190|0.202	350|162|20|675|337|45	532|1057	0.91	0.6336242	2	1.09	0.87	1.38	1.21	0.70	2.09

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.220|0.243	787|439|65|2950|1835|322	1291|5107	6.72	0.0347923	2	1.14	1.00	1.30	1.35	1.01	1.79
NHS	11	0.246|0.253	108|60|15|451|303|53	183|807	1.74	0.4186214	2	1.21	0.85	1.72	0.85	0.46	1.57
STAGE1-2	4	0.225|0.248	465|259|43|2015|1256|243	767|3514	5.99	0.0500419	2	1.18	1.00	1.41	1.38	0.98	1.95
STAGE2	2	0.218|0.246	357|199|28|1564|953|190	584|2707	7.20	0.0273783	2	1.18	0.97	1.43	1.67	1.09	2.55
PBCS1	20	0.272|0.272	99|77|13|186|139|26	189|351	0.04	0.9797937	2	0.97	0.67	1.41	1.03	0.50	2.11
PLCO	5	0.169|0.232	52|19|3|261|166|21	74|448	4.48	0.1065865	2	1.81	1.02	3.20	1.61	0.45	5.70
WHI	2	0.200|0.248	188|96|11|1010|600|131	295|1741	6.95	0.0309457	2	1.18	0.91	1.55	2.20	1.17	4.16
STAGE3	15	0.214|0.231	322|180|22|936|581|78	524|1595	0.93	0.6288917	2	1.07	0.86	1.33	1.23	0.75	2.04
NHS2	11	0.267|0.230	46|34|6|198|126|15	86|339	1.38	0.5016455	2	0.85	0.51	1.40	0.57	0.20	1.58
PBCS2	4	0.195|0.233	219|111|11|417|254|38	341|709	3.77	0.1521629	2	1.18	0.89	1.55	1.83	0.91	3.67
WHS	23	0.232|0.229	57|35|5|321|201|25	97|547	0.09	0.9555902	2	1.03	0.65	1.65	0.88	0.32	2.45
PBCS 1+2	6	0.223|0.246	318|188|24|602|391|65	530|1058	2.83	0.2428173	2	1.11	0.89	1.38	1.48	0.90	2.42

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.357|0.377	525|602|158|2017|2314|764	1285|5095	5.11	0.0775671	2	0.98	0.85	1.12	1.22	1.00	1.50
NHS	13	0.388|0.375	67|90|26|325|359|123	183|807	1.55	0.4596208	2	0.80	0.56	1.14	0.92	0.56	1.53
STAGE1-2	11	0.374|0.377	301|359|107|1401|1579|536	767|3516	1.85	0.3959278	2	0.92	0.77	1.09	1.06	0.83	1.36
STAGE2	15	0.369|0.378	234|269|81|1076|1220|413	584|2709	1.03	0.5961763	2	0.95	0.78	1.16	1.10	0.82	1.46
PBCS1	17	0.354|0.364	83|78|28|147|154|51	189|352	0.46	0.7962781	2	1.14	0.77	1.68	1.03	0.60	1.78
PLCO	19	0.378|0.376	29|34|11|170|219|59	74|448	0.36	0.8339806	2	1.07	0.62	1.84	0.84	0.39	1.84
WHI	14	0.385|0.384	110|143|42|682|781|279	295|1742	1.75	0.4167162	2	0.88	0.67	1.15	1.10	0.75	1.61
STAGE3	2	0.333|0.377	224|243|51|617|735|228	518|1580	6.22	0.044653	2	1.07	0.87	1.33	1.55	1.10	2.19
NHS2	8	0.335|0.371	35|39|8|139|147|52	82|338	1.74	0.4198622	2	0.96	0.57	1.61	1.65	0.72	3.81
PBCS2	7	0.335|0.365	146|160|34|286|322|96	340|704	2.45	0.2936053	2	1.02	0.77	1.35	1.41	0.90	2.19

WHS	3	0.323|0.396	43|44|9|192|266|80	96|538	5.62	0.0601184	2	1.45	0.90	2.32	2.41	1.09	5.33
PBCS 1+2	10	0.342|0.365	229|238|62|432|476|147	529|1055	1.77	0.4121494	2	1.06	0.85	1.33	1.26	0.90	1.77

Locus rs3817198 Alleles T|C Chr 11p15.5 Location Neighborhood 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.323|0.335	582|578|126|2294|2211|606	1286|5111	4.95	0.0843582	2	0.96	0.84	1.09	1.22	0.98	1.52
NHS	3	0.308|0.328	82|88|12|373|339|95	182|807	5.43	0.0663027	2	0.84	0.60	1.18	1.77	0.92	3.39
STAGE1-2	5	0.334|0.337	329|359|76|1564|1530|419	764|3513	4.61	0.0999785	2	0.88	0.74	1.04	1.15	0.87	1.52
STAGE2	12	0.343|0.340	247|271|64|1191|1191|324	582|2706	1.72	0.4227453	2	0.89	0.73	1.08	1.02	0.75	1.40
PBCS1	16	0.321|0.326	84|86|17|161|150|39	187|350	0.69	0.7083879	2	0.91	0.62	1.33	1.18	0.62	2.22
PLCO	18	0.365|0.334	28|38|8|190|215|42	74|447	0.56	0.7576367	2	0.83	0.48	1.42	0.80	0.33	1.91
WHI	16	0.346|0.343	126|134|35|768|753|221	295|1742	0.80	0.671015	2	0.91	0.70	1.18	1.06	0.70	1.59
STAGE3	7	0.308|0.331	252|220|51|727|682|187	523|1596	2.60	0.2730167	2	1.09	0.88	1.35	1.32	0.93	1.88
NHS2	2	0.259|0.324	50|29|8|160|145|39	87|344	4.54	0.1032702	2	1.69	1.00	2.84	1.70	0.73	3.93
PBCS2	22	0.333|0.330	154|148|40|326|301|84	342|711	0.10	0.9530065	2	0.96	0.73	1.26	0.99	0.64	1.51
WHS	4	0.261|0.336	48|43|3|241|236|64	94|541	4.59	0.1007349	2	1.07	0.67	1.70	3.48	1.04	11.62
PBCS 1+2	19	0.327|0.327	239|233|56|490|450|123	528|1063	0.46	0.7926438	2	0.94	0.76	1.18	1.05	0.74	1.50

Locus rs17740709 Alleles A|G Chr 12q21.31 Location Neighborhood 81947471 TMT2C

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.210|0.220	811|412|65|3142|1658|292	1288|5092	4.02	0.1343172	2	1.10	0.96	1.27	1.27	0.95	1.69
NHS	2	0.180|0.222	121|58|4|502|251|54	183|807	5.80	0.0551574	2	1.12	0.79	1.59	3.32	1.17	9.39
STAGE1-2	17	0.213|0.217	481|246|40|2194|1121|202	767|3517	1.09	0.5795949	2	1.05	0.88	1.25	1.20	0.83	1.72
STAGE2	21	0.223|0.215	360|188|36|1692|870|148	584|2710	0.22	0.8963695	2	1.04	0.85	1.26	0.95	0.64	1.41
PBCS1	18	0.254|0.245	106|70|13|203|127|23	189|353	0.27	0.8725775	2	0.90	0.62	1.32	0.98	0.47	2.04
PLCO	16	0.209|0.218	48|21|5|277|147|24	74|448	0.71	0.7003303	2	1.26	0.72	2.20	0.92	0.32	2.63
WHI	22	0.212|0.210	187|91|17|1105|544|93	295|1742	0.10	0.9516416	2	1.02	0.77	1.33	0.93	0.54	1.60
STAGE3	4	0.207|0.228	330|166|25|948|539|90	521|1577	4.08	0.1298607	2	1.20	0.96	1.49	1.42	0.89	2.27
NHS2	18	0.204|0.212	53|23|5|207|109|16	81|332	0.85	0.6536034	2	1.27	0.73	2.19	0.88	0.30	2.54
PBCS2	2	0.212|0.254	215|109|18|398|260|50	342|708	4.53	0.1037762	2	1.29	0.98	1.71	1.52	0.86	2.67
WHS	13	0.194|0.203	62|34|2|343|170|24	98|537	1.17	0.5570469	2	0.90	0.56	1.44	1.99	0.45	8.71
PBCS 1+2	8	0.227|0.251	321|179|31|601|385|73	531|1059	2.21	0.3304089	2	1.15	0.92	1.44	1.28	0.82	2.00

Locus rs2391406 Alleles T|G Chr 13q33.3 Location Neighborhood 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.360|0.367	511|627|150|2027|2376|676	1288|5079	3.91	0.1413239	2	0.98	0.86	1.13	1.20	0.98	1.48
NHS	15	0.358|0.366	72|91|20|323|377|107	183|807	0.80	0.6719342	2	0.95	0.67	1.34	1.21	0.70	2.09
STAGE1-2	16	0.354|0.364	308|373|85|1393|1684|438	766|3515	1.24	0.5368829	2	1.02	0.86	1.21	1.16	0.89	1.52
STAGE2	17	0.353|0.364	236|282|65|1070|1307|331	583|2708	0.73	0.693187	2	1.05	0.86	1.27	1.14	0.84	1.55
PBCS1	5	0.362|0.375	78|84|26|125|190|37	188|352	4.29	0.1172873	2	1.41	0.96	2.08	0.89	0.50	1.60
PLCO	7	0.345|0.360	29|39|6|180|213|55	74|448	2.24	0.3268681	2	0.81	0.47	1.38	1.59	0.61	4.13
WHI	15	0.344|0.365	123|141|31|693|828|221	295|1742	1.24	0.5387771	2	1.04	0.80	1.35	1.27	0.83	1.94
STAGE3	6	0.368|0.373	203|253|65|634|693|238	521|1565	3.70	0.1570399	2	0.93	0.75	1.16	1.27	0.92	1.75
NHS2	12	0.359|0.392	34|41|10|129|154|56	85|339	1.12	0.5706178	2	0.97	0.58	1.63	1.45	0.67	3.17
PBCS2	10	0.382|0.381	126|171|45|275|321|108	342|704	1.94	0.3781395	2	0.88	0.67	1.17	1.15	0.76	1.74
WHS	15	0.324|0.351	43|41|10|230|218|74	94|522	1.09	0.5808855	2	0.93	0.57	1.50	1.38	0.65	2.94
PBCS 1+2	22	0.375|0.379	204|256|71|400|510|145	531|1055	0.15	0.9266451	2	1.03	0.82	1.29	1.06	0.76	1.49

Locus rs7936636 Alleles C|T Chr 11p11.2 Location Neighborhood 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	9	0.234|0.250	759|457|74|2885|1879|337	1290|5101	3.48	0.1753344	2	1.10	0.96	1.25	1.23	1.23	0.94	1.62
NHS	4	0.219|0.247	110|66|7|470|276|61	183|807	3.29	0.1932579	2	0.99	0.70	1.39	2.06	2.06	0.91	4.64
STAGE1-2	8	0.226|0.247	465|258|44|2020|1258|238	767|3516	2.68	0.2614318	2	1.12	0.94	1.32	1.25	1.25	0.88	1.76
STAGE2	10	0.228|0.247	355|192|37|1550|982|177	584|2709	2.20	0.3335088	2	1.16	0.95	1.41	1.08	1.08	0.74	1.59
PBCS1	21	0.228|0.229	115|62|12|212|119|21	189|352	0.01	0.9927774	2	1.02	0.69	1.50	0.97	0.97	0.46	2.06
PLCO	8	0.243|0.253	45|22|7|254|161|33	74|448	2.17	0.3374824	2	1.40	0.80	2.46	0.76	0.76	0.31	1.85
WHI	9	0.219|0.249	181|99|15|983|649|110	295|1742	3.01	0.2218891	2	1.23	0.94	1.60	1.37	1.37	0.78	2.42
STAGE3	17	0.248|0.258	294|199|30|865|621|98	523|1584	0.78	0.6774027	2	1.07	0.86	1.32	1.18	1.18	0.76	1.84
NHS2	13	0.244|0.239	47|33|4|198|117|22	84|337	0.96	0.6179407	2	0.84	0.50	1.39	1.37	1.37	0.45	4.21
PBCS2	20	0.265|0.268	185|133|24|372|282|47	342|701	0.19	0.9080807	2	1.04	0.79	1.37	0.94	0.94	0.55	1.59
WHS	6	0.191|0.256	62|33|2|295|222|29	97|546	3.96	0.1379955	2	1.37	0.86	2.18	3.28	3.28	0.74	14.51
PBCS 1+2	21	0.251|0.256	300|195|36|584|401|69	531|1054	0.15	0.9260738	2	1.04	0.83	1.30	0.97	0.97	0.63	1.49

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	10	0.162|0.160	908|352|33|3629|1305|166	1293|5100	3.03	0.2202626	2	0.91	0.79	1.05	1.23	1.23	0.83	1.81
NHS	14	0.164|0.168	129|48|6|572|199|36	183|807	0.89	0.641312	2	0.93	0.64	1.35	1.45	1.45	0.59	3.54
STAGE1-2	3	0.175|0.161	522|222|23|2508|881|126	767|3515	6.40	0.0407519	2	0.81	0.67	0.97	1.17	1.17	0.74	1.86
STAGE2	3	0.178|0.159	393|174|17|1936|682|90	584|2708	6.67	0.0356099	2	0.77	0.63	0.94	1.08	1.08	0.63	1.87
PBCS1	1	0.148|0.156	134|54|1|259|76|17	189|352	9.35	0.0093328	2	0.74	0.49	1.12	9.20	1.20	1.20	70.38
PLCO	2	0.230|0.160	41|32|1|318|117|13	74|448	9.60	0.0082449	2	0.45	0.27	0.77	1.61	1.61	0.20	12.86
WHI	5	0.186|0.157	200|80|15|1244|446|51	295|1741	4.85	0.0882698	2	0.89	0.67	1.18	0.52	0.52	0.29	0.96
STAGE3	14	0.143|0.159	386|130|10|1121|424|40	526|1585	1.15	0.5619598	2	1.10	0.87	1.39	1.32	1.32	0.64	2.70
NHS2	20	0.161|0.151	61|24|2|246|82|10	87|338	0.56	0.756637	2	0.83	0.48	1.42	1.18	1.18	0.25	5.58
PBCS2	12	0.136|0.158	254|81|6|496|184|18	341|698	1.67	0.4331115	2	1.17	0.87	1.59	1.51	1.51	0.59	3.85
WHS	20	0.148|0.166	71|25|2|379|158|12	98|549	0.28	0.8700328	2	1.14	0.69	1.89	1.10	1.10	0.23	5.29
PBCS 1+2	2	0.141|0.157	388|135|7|755|260|35	530|1050	5.51	0.0635424	2	1.01	0.79	1.29	2.59	2.59	1.14	5.91

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	11	0.264|0.282	378|275|47|978|787|146	700|1911	2.68	0.2624433	2	1.14	0.94	1.37	1.24	1.24	0.87	1.78
STAGE3	5	0.247|0.278	293|197|30|817|646|116	520|1579	3.74	0.1540798	2	1.19	0.96	1.47	1.37	1.37	0.89	2.10
NHS2	14	0.268|0.285	46|28|8|173|133|29	82|335	0.94	0.6253208	2	1.27	0.75	2.14	0.93	0.93	0.39	2.20
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	6.24	0.0441587	2	1.29	0.98	1.70	1.85	1.85	1.01	3.40
WHS	22	0.273|0.260	51|39|7|294|205|37	97|536	0.11	0.9460915	2	0.93	0.58	1.48	0.91	0.91	0.38	2.20
PBCS 1+2	3	0.261|0.293	281|208|32|511|449|80	521|1040	3.69	0.1578836	2	1.18	0.95	1.47	1.41	1.41	0.91	2.19

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	12	0.228|0.215	760|466|61|3130|1743|227	1287|5100	1.87	0.393286	2	0.92	0.80	1.05	0.90	0.90	0.67	1.22
NHS	7	0.239|0.209	105|67|10|499|278|30	182|807	2.02	0.3639906	2	0.87	0.61	1.22	0.61	0.61	0.29	1.30
STAGE1-2	14	0.224|0.211	459|271|36|2185|1182|150	766|3517	1.55	0.4599425	2	0.92	0.77	1.09	0.85	0.85	0.58	1.24
STAGE2	18	0.219|0.211	354|204|26|1686|904|120	584|2710	0.49	0.7810228	2	0.94	0.77	1.14	0.93	0.93	0.59	1.46
PBCS1	3	0.228|0.203	115|62|12|219|125|9	189|353	5.19	0.0745158	2	1.05	0.71	1.54	0.38	0.38	0.15	0.93
PLCO	12	0.189|0.225	48|24|2|262|170|16	74|448	1.17	0.5583721	2	1.31	0.76	2.24	1.56	1.56	0.34	7.16
WHI	8	0.224|0.208	174|110|11|1100|559|83	295|1742	3.40	0.1827064	2	0.80	0.61	1.04	1.17	1.17	0.61	2.25
STAGE3	21	0.235|0.226	302|195|25|946|562|77	522|1585	0.59	0.7453887	2	0.92	0.74	1.14	1.01	1.01	0.62	1.64
NHS2	16	0.212|0.233	52|30|3|198|115|20	85|333	0.87	0.6460004	2	1.04	0.62	1.73	1.81	1.81	0.51	6.36
PBCS2	19	0.234|0.224	198|125|17|422|248|34	340|704	0.20	0.9065793	2	0.94	0.71	1.24	0.98	0.98	0.53	1.81
WHS	12	0.258|0.224	52|40|5|326|199|23	97|548	1.21	0.5467911	2	0.80	0.50	1.27	0.69	0.69	0.24	1.94

PBCS 1+2 12 0.232|0.217 312|187|29|640|372|43 528|1055 1.70 0.4275291 2 0.97 0.78 1.21 0.72 0.44 1.18

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.422|0.431	434|623|232|1673|2433|970	1289|5076	1.75	0.4172092	2	1.05	0.92	1.21	1.13	0.94	1.36
NHS	8	0.448|0.437	57|87|38|240|421|139	182|800	1.92	0.3837581	2	1.13	0.78	1.64	0.84	0.53	1.34
STAGE1-2	9	0.422|0.429	264|358|144|1154|1698|657	766|3509	2.49	0.2882352	2	1.15	0.96	1.38	1.12	0.89	1.41
STAGE2	7	0.414|0.427	207|271|106|914|1277|518	584|2709	2.72	0.2564767	2	1.15	0.94	1.41	1.22	0.93	1.59
PBCS1	7	0.476|0.463	55|88|46|97|185|71	189|353	2.38	0.3040895	2	1.20	0.78	1.83	0.84	0.51	1.40
PLCO	3	0.338|0.407	28|42|4|163|205|80	74|448	7.99	0.0184327	2	0.81	0.47	1.38	3.41	1.15	10.14
WHI	13	0.402|0.429	111|131|53|588|813|340	295|1741	2.14	0.342892	2	1.19	0.90	1.57	1.25	0.88	1.78
STAGE3	8	0.422|0.435	171|265|89|520|739|315	525|1574	2.33	0.3111454	2	0.93	0.74	1.16	1.15	0.85	1.55
NHS2	17	0.403|0.449	31|43|14|105|156|71	88|332	0.86	0.6520049	2	1.06	0.63	1.81	1.39	0.68	2.81
PBCS2	14	0.413|0.440	117|165|58|226|346|140	340|712	1.21	0.5466509	2	1.10	0.82	1.47	1.24	0.84	1.81
WHS	1	0.469|0.420	23|57|17|189|237|104	97|530	7.21	0.0271773	2	0.49	0.29	0.84	0.74	0.37	1.47
PBCS 1+2	16	0.435|0.447	171|253|103|322|527|209	527|1058	0.84	0.6578156	2	1.12	0.88	1.42	1.08	0.80	1.46

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.108|0.109	1029|245|17|4054|1012|52	1291|5118	1.68	0.4318629	2	1.05	0.90	1.23	0.73	0.41	1.28
NHS	6	0.117|0.108	145|33|5|642|155|10	183|807	2.31	0.3148011	2	1.03	0.67	1.58	0.44	0.15	1.33
STAGE1-2	19	0.108|0.110	612|144|11|2781|693|41	767|3515	0.97	0.6149517	2	1.07	0.87	1.31	0.78	0.39	1.55
STAGE2	19	0.105|0.111	467|111|6|2139|538|31	584|2708	0.48	0.7850317	2	1.08	0.86	1.37	1.08	0.44	2.66
PBCS1	12	0.101|0.123	152|36|1|270|79|4	189|353	1.08	0.5835455	2	1.20	0.77	1.88	2.16	0.24	19.72
PLCO	22	0.122|0.106	56|18|0|357|87|4	74|448									
WHI	21	0.107|0.110	236|55|4|1378|341|21	295|1740	0.19	0.911097	2	1.06	0.77	1.47	0.91	0.31	2.71
STAGE3	16	0.108|0.106	417|101|6|1275|319|11	524|1605	0.81	0.6664668	2	1.02	0.79	1.32	0.64	0.23	1.77
NHS2	6	0.137|0.099	65|15|4|280|56|6	84|342	2.63	0.2684074	2	0.92	0.49	1.75	0.35	0.09	1.31
PBCS2	23	0.105|0.107	273|68|2|565|143|5	343|713	0.04	0.9814424	2	0.99	0.72	1.38	1.17	0.22	6.14
WHS	24	0.093|0.109	79|18|0|430|120|0	97|550									
PBCS 1+2	18	0.103|0.113	425|104|3|833|222|9	532|1064	0.57	0.7535026	2	1.07	0.83	1.40	1.45	0.39	5.41

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.370|0.367	513|560|186|2015|2294|686	1259|4995	1.62	0.4442174	2	1.04	0.91	1.19	0.92	0.76	1.11
NHS	12	0.369|0.362	77|68|31|333|343|115	176|791	1.62	0.4453885	2	1.16	0.80	1.66	0.86	0.53	1.38
STAGE1-2	15	0.376|0.362	227|246|88|1268|1397|418	561|3083	1.51	0.4706443	2	1.01	0.82	1.22	0.86	0.65	1.13
STAGE2	16	0.379|0.362	150|178|57|935|1054|303	385|2292	0.78	0.6764134	2	0.95	0.75	1.20	0.86	0.62	1.20
PLCO	13	0.396|0.372	26|35|11|181|186|69	72|436	1.00	0.6050488	2	0.75	0.43	1.31	0.87	0.40	1.88
WHI	11	0.387|0.362	111|131|46|680|800|212	288|1692	2.33	0.3119992	2	1.00	0.76	1.32	0.76	0.52	1.12
STAGE3	10	0.382|0.374	203|238|80|618|750|218	521|1586	1.91	0.3843447	2	1.04	0.83	1.29	0.84	0.61	1.14
NHS2	9	0.419|0.404	32|36|18|122|166|56	86|344	1.73	0.4202593	2	1.17	0.69	2.00	0.76	0.39	1.48
PBCS2	21	0.362|0.360	134|163|41|283|324|88	338|695	0.16	0.921061	2	0.95	0.72	1.26	1.02	0.67	1.57
WHS	5	0.418|0.373	37|39|21|213|260|74	97|547	4.38	0.1118296	2	1.24	0.76	2.05	0.65	0.35	1.21
PBCS 1+2	14	0.347|0.366	217|239|59|412|471|138	515|1021	1.25	0.5346422	2	1.03	0.82	1.30	1.22	0.86	1.73

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.231|0.224	759|465|65|3076|1762|263	1289|5101	1.55	0.4605699	2	0.92	0.80	1.05	0.98	0.73	1.31

NHS	17	0.238|0.245	107|65|11|457|304|46	183|807	0.45	0.7986237	2	1.11	0.79	1.57	0.94	0.47	1.89
STAGE1-2	13	0.233|0.229	446|283|37|2104|1217|196	766|3517	1.57	0.4568233	2	0.91	0.77	1.08	1.09	0.75	1.59
STAGE2	5	0.232|0.224	339|218|26|1647|913|150	583|2710	3.30	0.1925079	2	0.86	0.71	1.04	1.16	0.75	1.81
PBCS1	2	0.214|0.215	113|71|5|223|108|22	189|353	5.62	0.06009	2	0.78	0.54	1.15	2.47	0.90	6.75
PLCO	10	0.243|0.238	40|32|2|259|165|24	74|448	1.57	0.4559126	2	0.80	0.48	1.35	1.83	0.41	8.22
WHI	19	0.238|0.225	171|106|17|1053|594|95	294|1742	0.36	0.836086	2	0.93	0.72	1.22	0.89	0.52	1.54
STAGE3	13	0.228|0.214	313|182|28|972|545|67	523|1584	1.16	0.5606167	2	0.92	0.74	1.15	0.80	0.50	1.29
NHS2	19	0.235|0.229	51|28|6|194|119|16	85|329	0.84	0.65661	2	1.08	0.64	1.81	0.67	0.25	1.81
PBCS2	18	0.215|0.210	211|115|16|448|228|35	342|711	0.28	0.8712455	2	0.94	0.71	1.24	1.06	0.57	1.98
WHS	7	0.266|0.211	51|39|6|330|198|16	96|544	3.43	0.1803775	2	0.75	0.47	1.20	0.44	0.16	1.21
PBCS 1+2	5	0.215|0.211	324|186|21|671|336|57	531|1064	2.92	0.2318801	2	0.88	0.71	1.11	1.36	0.81	2.29

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.360|0.367	533|588|171|2093|2255|738	1292|5086	1.40	0.4960595	2	0.98	0.86	1.12	1.10	0.90	1.34
NHS	19	0.374|0.374	73|83|27|329|353|125	183|807	0.21	0.8988117	2	0.92	0.65	1.31	0.99	0.61	1.62
STAGE1-2	10	0.362|0.368	311|356|100|1447|1549|517	767|3513	2.22	0.3303224	2	0.91	0.77	1.09	1.08	0.84	1.39
STAGE2	9	0.359|0.366	238|273|73|1118|1196|392	584|2706	2.23	0.3278788	2	0.91	0.75	1.11	1.12	0.83	1.50
PBCS1	8	0.381|0.334	74|86|29|160|150|43	189|353	2.26	0.3233659	2	0.80	0.54	1.19	0.68	0.39	1.19
PLCO	20	0.358|0.354	30|35|9|188|200|58	74|446	0.30	0.8622939	2	0.87	0.51	1.48	0.97	0.43	2.21
WHI	4	0.342|0.378	124|140|31|694|776|270	295|1740	4.91	0.085957	2	0.99	0.76	1.29	1.55	1.02	2.37
STAGE3	18	0.356|0.365	222|232|71|646|707|221	525|1574	0.78	0.6776061	2	1.08	0.87	1.35	1.12	0.82	1.54
NHS2	5	0.341|0.373	41|30|14|133|153|48	85|334	2.63	0.2682117	2	1.54	0.91	2.62	1.11	0.55	2.22
PBCS2	15	0.366|0.382	141|153|49|269|335|102	343|706	0.79	0.6724759	2	1.14	0.86	1.51	1.09	0.73	1.63
WHS	9	0.335|0.338	40|49|8|244|219|71	97|534	3.04	0.2190294	2	0.75	0.47	1.20	1.41	0.63	3.19
PBCS 1+2	20	0.371|0.366	215|239|78|429|484|145	532|1058	0.32	0.8528723	2	1.02	0.81	1.28	0.93	0.67	1.28

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.437|0.434	399|650|238|1648|2482|973	1287|5103	1.24	0.5387165	2	0.94	0.81	1.08	1.01	0.84	1.22
NHS	9	0.432|0.436	55|98|30|261|388|158	183|807	1.80	0.4065291	2	0.84	0.58	1.21	1.10	0.67	1.79
STAGE1-2	6	0.428|0.429	239|399|129|1164|1687|665	767|3516	3.90	0.1420752	2	0.89	0.74	1.06	1.09	0.86	1.38
STAGE2	8	0.427|0.427	184|301|99|903|1299|507	584|2709	2.30	0.3170174	2	0.90	0.74	1.11	1.09	0.83	1.43
PBCS1	14	0.439|0.457	57|98|34|104|174|74	189|352	1.01	0.6035443	2	0.99	0.65	1.49	1.25	0.74	2.13
PLCO	9	0.453|0.391	22|37|15|167|212|69	74|448	2.07	0.3554938	2	0.73	0.41	1.29	0.60	0.29	1.26
WHI	12	0.408|0.428	99|151|45|579|835|328	295|1742	2.30	0.3163034	2	0.95	0.72	1.25	1.25	0.86	1.83
STAGE3	20	0.450|0.445	161|251|109|484|795|309	521|1588	0.62	0.7316383	2	1.02	0.81	1.29	0.92	0.69	1.23
NHS2	3	0.506|0.432	19|46|20|106|166|61	85|333	3.64	0.1619316	2	0.61	0.33	1.10	0.54	0.26	1.09
PBCS2	9	0.432|0.451	115|156|69|211|357|141	340|709	2.11	0.3475182	2	1.24	0.92	1.67	1.09	0.75	1.58
WHS	21	0.464|0.445	27|49|20|167|272|107	96|546	0.23	0.8926342	2	0.89	0.53	1.49	0.89	0.47	1.69
PBCS 1+2	13	0.436|0.452	171|254|103|315|531|214	528|1060	1.29	0.5254034	2	1.14	0.90	1.45	1.14	0.84	1.54

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.250|0.243	722|489|77|2906|1906|288	1288|5100	0.98	0.6122449	2	0.95	0.83	1.08	0.90	0.69	1.19
NHS	16	0.260|0.262	101|69|13|433|325|49	183|807	0.76	0.6849548	2	1.11	0.79	1.57	0.86	0.44	1.65
STAGE1-2	20	0.256|0.248	420|302|45|1984|1323|210	767|3517	0.73	0.6936088	2	0.93	0.79	1.10	0.96	0.68	1.36
STAGE2	11	0.254|0.244	319|233|32|1551|998|161	584|2710	1.84	0.398794	2	0.88	0.73	1.07	1.01	0.67	1.52
PBCS1	4	0.235|0.231	106|77|6|213|117|23	189|353	5.05	0.0800777	2	0.78	0.54	1.13	2.10	0.82	5.35
PLCO	15	0.264|0.253	38|33|3|247|175|26	74|448	0.84	0.6559725	2	0.82	0.49	1.38	1.27	0.36	4.52
WHI	17	0.264|0.247	160|114|21|985|654|103	295|1742	0.77	0.6798799	2	0.96	0.74	1.25	0.80	0.49	1.32

STAGE3	19	0.241|0.234	302|188|32|922|585|79	522|1586	0.76	0.6835199	2	0.97	0.79	1.21	0.82	0.53	1.28
NHS2	7	0.229|0.241	52|24|7|190|124|18	83|332	2.60	0.2730967	2	1.38	0.80	2.36	0.67	0.26	1.69
PBCS2	17	0.230|0.225	202|124|17|427|240|39	343|706	0.61	0.7354014	2	0.92	0.70	1.21	1.13	0.62	2.07
WHS	8	0.292|0.242	48|40|8|305|221|22	96|548	3.15	0.2066171	2	0.83	0.52	1.31	0.46	0.19	1.13
PBCS 1+2	4	0.232|0.226	308|200|23|640|355|61	531|1056	3.40	0.1831144	2	0.87	0.70	1.09	1.34	0.81	2.22

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.024|0.026	1229|59|2|4833|251|9	1290|5093	0.47	0.7916263	2	1.11	0.82	1.49	0.98	0.21	4.66
NHS	22	0.022|0.026	175|8|0|765|42|0	183|807									
STAGE1-2	23	0.022|0.025	733|34|0|3341|174|2	767|3517									
STAGE2	23	0.022|0.025	558|26|0|2576|132|2	584|2710									
PBCS1	22	0.021|0.024	181|8|0|336|17|0	189|353									
PLCO	24	0.020|0.026	71|3|0|425|23|0	74|448									
WHI	24	0.025|0.025	280|15|0|1655|86|1	295|1742									
STAGE3	24	0.028|0.029	496|25|2|1493|77|7	523|1577	0.24	0.8872308	2	1.10	0.69	1.77	0.80	0.16	4.05
NHS2	24	0.000|0.030	84|0|0|321|14|3	84|338									
PBCS2	24	0.033|0.028	322|21|1|669|40|0	344|709									
WHS	19	0.032|0.029	90|4|1|503|23|4	95|530	0.38	0.8265927	2	0.85	0.28	2.53	0.54	0.06	5.05
PBCS 1+2	24	0.029|0.027	503|29|1|1004|57|0	533|1061									

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.404|0.417	446|647|199|1696|2557|852	1292|5105	0.45	0.7998214	2	0.99	0.86	1.14	1.05	0.87	1.27
NHS	18	0.434|0.429	54|99|30|253|415|139	183|807	0.44	0.8031299	2	0.89	0.62	1.29	0.99	0.61	1.63
STAGE1-2	18	0.403|0.424	264|388|115|1133|1787|597	767|3517	0.98	0.6132779	2	1.03	0.86	1.23	1.13	0.88	1.45
STAGE2	14	0.393|0.422	210|289|85|880|1372|458	584|2710	1.32	0.5174464	2	1.07	0.87	1.31	1.18	0.89	1.56
PBCS1	19	0.368|0.368	74|91|24|141|164|48	189|353	0.13	0.936943	2	0.95	0.64	1.39	1.03	0.58	1.83
PLCO	17	0.426|0.393	25|35|14|162|220|66	74|448	0.70	0.7031902	2	1.00	0.56	1.76	0.75	0.36	1.56
WHI	7	0.403|0.444	100|152|43|517|903|322	295|1742	3.44	0.1789584	2	1.15	0.87	1.51	1.44	0.98	2.11
STAGE3	23	0.407|0.403	182|260|84|563|771|255	526|1589	0.34	0.8436868	2	0.94	0.75	1.17	0.95	0.70	1.29
NHS2	10	0.482|0.425	22|43|19|115|159|64	84|338	1.70	0.4281903	2	0.77	0.43	1.37	0.64	0.32	1.28
PBCS2	16	0.397|0.386	122|171|51|266|333|105	344|704	0.62	0.7331903	2	0.90	0.67	1.19	0.98	0.65	1.46
WHS	17	0.378|0.412	38|46|14|182|279|86	98|547	0.51	0.7735556	2	1.16	0.71	1.88	1.24	0.63	2.45
PBCS 1+2	17	0.386|0.380	196|261|75|407|496|153	532|1056	0.62	0.7352265	2	0.91	0.73	1.15	0.98	0.70	1.36

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.225|0.209	779|439|70|3197|1647|236	1288|5080	0.44	0.8031439	2	0.97	0.85	1.11	0.93	0.70	1.24
NHS	10	0.191|0.189	122|52|9|529|251|27	183|807	1.76	0.4158093	2	1.14	0.80	1.64	0.67	0.31	1.47
STAGE1-2	21	0.202|0.200	492|240|35|2262|1101|152	767|3515	0.12	0.9439238	2	1.03	0.86	1.23	1.03	0.70	1.52
STAGE2	20	0.205|0.203	370|188|26|1733|850|125	584|2708	0.40	0.8171727	2	1.00	0.82	1.22	1.15	0.74	1.81
PBCS1	10	0.222|0.249	114|66|9|204|121|27	189|352	1.78	0.4104042	2	1.02	0.69	1.50	1.71	0.77	3.78
PLCO	21	0.203|0.195	47|24|3|288|145|15	74|448	0.06	0.9684832	2	0.98	0.57	1.69	0.85	0.23	3.08
WHI	20	0.198|0.194	192|89|14|1138|530|73	295|1741	0.20	0.9029715	2	1.01	0.77	1.32	0.88	0.48	1.59
STAGE3	9	0.258|0.228	287|199|35|936|547|83	521|1566	2.09	0.3524023	2	0.88	0.71	1.09	0.79	0.52	1.22
NHS2	21	0.204|0.216	51|27|3|202|112|15	81|329	0.08	0.9613146	2	1.02	0.60	1.73	1.20	0.33	4.36
PBCS2	6	0.278|0.245	177|141|25|402|254|45	343|701	2.73	0.2547474	2	0.80	0.61	1.05	0.82	0.48	1.39
WHS	14	0.232|0.212	59|31|7|332|181|23	97|536	1.14	0.5665073	2	0.99	0.61	1.61	0.61	0.25	1.53
PBCS 1+2	11	0.258|0.247	291|207|34|605|374|73	532|1052	1.75	0.4158393	2	0.87	0.70	1.09	1.05	0.68	1.62

Locus	Alleles	Chr	Location	Neighborhood										
rs724244	C|T	3p24.1		27217157 NEK10										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	23	0.267|0.273	597|424|83|2281|1695|328	1104|4304	0.10	0.9508505	2	1.02	0.88	1.18	1.03	0.79	1.35	
STAGE1-2	22	0.276|0.275	308|228|47|1429|1071|209	583|2709	0.05	0.9760107	2	0.98	0.81	1.19	0.98	0.69	1.39	
STAGE2	22	0.276|0.275	308|228|47|1429|1071|209	583|2709	0.05	0.9761391	2	0.98	0.81	1.19	0.98	0.69	1.39	
PBCS1	11	0.250|0.265	106|70|12|198|123|32	188|353	1.70	0.4284314	2	0.93	0.64	1.37	1.52	0.74	3.12	
PLCO	4	0.257|0.271	44|22|8|235|182|30	74|447	4.67	0.0969753	2	1.56	0.90	2.73	0.62	0.25	1.50	
WHI	18	0.295|0.280	145|126|24|901|708|133	295|1742	0.56	0.7557225	2	0.91	0.70	1.18	0.91	0.57	1.46	
STAGE3	22	0.258|0.270	290|196|37|852|624|119	523|1595	0.42	0.808809	2	1.07	0.86	1.32	1.08	0.72	1.62	
NHS2	15	0.286|0.281	45|30|9|176|134|28	84|338	0.93	0.6289149	2	1.11	0.66	1.87	0.73	0.32	1.68	
PBCS2	11	0.244|0.265	198|121|23|381|280|48	342|709	1.72	0.4233763	2	1.20	0.91	1.58	1.13	0.66	1.92	
WHS	10	0.284|0.270	47|45|5|295|210|43	97|548	2.85	0.2409569	2	0.71	0.45	1.12	1.26	0.47	3.38	
PBCS 1+2	9	0.245|0.265	303|191|34|579|403|80	528|1062	1.81	0.404269	2	1.10	0.88	1.38	1.30	0.84	1.99	

Locus	Alleles	Chr	Location	Neighborhood										
rs4666451	G|A	2p24.1		19150424										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	24	0.387|0.385	415|528|164|1621|2044|634	1107|4299	0.01	0.994448	2	1.00	0.86	1.16	1.01	0.82	1.25	
STAGE1-2	12	0.363|0.383	236|272|76|1028|1286|396	584|2710	1.64	0.4408551	2	1.09	0.89	1.33	1.19	0.89	1.60	
STAGE2	13	0.363|0.383	236|272|76|1028|1286|396	584|2710	1.63	0.4418241	2	1.09	0.89	1.33	1.19	0.89	1.60	
PBCS1	6	0.384|0.375	67|99|23|140|161|52	189|353	2.65	0.2656403	2	0.78	0.53	1.15	1.15	0.65	2.06	
PLCO	6	0.338|0.394	30|38|6|170|203|75	74|448	3.70	0.1569132	2	0.87	0.51	1.49	2.11	0.83	5.33	
WHI	6	0.351|0.378	130|123|42|672|822|248	295|1742	3.90	0.142314	2	1.31	1.00	1.71	1.11	0.76	1.63	
STAGE3	11	0.413|0.388	179|257|88|593|760|238	524|1591	1.52	0.4665504	2	0.90	0.72	1.13	0.84	0.62	1.13	
NHS2	1	0.436|0.370	31|35|20|128|165|41	86|334	7.68	0.0215344	2	1.18	0.69	2.03	0.48	0.25	0.94	
PBCS2	3	0.411|0.398	111|181|50|263|330|118	342|711	3.86	0.1454901	2	0.78	0.58	1.04	1.02	0.68	1.53	
WHS	16	0.401|0.387	37|41|18|202|265|79	96|546	0.94	0.6253733	2	1.11	0.68	1.81	0.82	0.43	1.54	
PBCS 1+2	1	0.401|0.390	178|279|73|403|489|170	530|1062	6.54	0.0380003	2	0.77	0.61	0.97	1.05	0.76	1.46	

adj_trend

Locus	Alleles	Chr	Location	Neighborhood										
rs11249433	T|C	1p11.2		120982136 LOC647121										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	1	0.397|0.441	474|598|209|1590|2476|993	1281|5059	10.44	0.0012304	1	1.16	1.06	1.27	1.35	1.12	1.61	
NHS	5	0.412|0.448	65|84|33|238|411|155	182|804	1.26	0.2619051	1	1.14	0.90	1.45	1.31	0.82	2.10	
STAGE1-2	1	0.402|0.443	270|373|121|1070|1756|674	764|3500	6.54	0.0105664	1	1.16	1.04	1.31	1.35	1.07	1.71	
STAGE2	2	0.399|0.442	205|289|88|832|1345|519	582|2696	5.18	0.022797	1	1.17	1.02	1.33	1.36	1.04	1.78	
PBCS1	10	0.392|0.407	67|96|26|124|171|58	189|353	0.27	0.6001273	1	1.07	0.83	1.39	1.15	0.68	1.94	
PLCO	14	0.411|0.427	26|34|13|140|232|75	73|447	0.16	0.6900944	1	1.08	0.74	1.57	1.16	0.55	2.45	
WHI	1	0.396|0.455	105|145|44|514|857|359	294|1730	7.66	0.0056393	1	1.29	1.08	1.54	1.66	1.16	2.38	
STAGE3	3	0.388|0.436	204|225|88|520|720|319	517|1559	4.04	0.0445222	1	1.16	1.00	1.34	1.34	1.01	1.79	
NHS2	22	0.453|0.446	27|40|19|107|147|72	86|326	0.02	0.8762929	1	0.97	0.70	1.35	0.95	0.49	1.83	
PBCS2	5	0.372|0.410	137|149|51|246|324|121	337|691	2.24	0.1345332	1	1.15	0.96	1.39	1.33	0.91	1.94	
WHS	2	0.383|0.462	40|36|18|167|249|126	94|542	4.21	0.0402104	1	1.39	1.01	1.90	1.92	1.03	3.60	
PBCS 1+2	4	0.379|0.409	204|245|77|370|495|179	526|1044	2.19	0.1391221	1	1.12	0.96	1.31	1.26	0.93	1.71	

Locus	Alleles	Chr	Location	Neighborhood										
rs7716600	C|A	5p12		44910762										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	2	0.220|0.243	787|439|65|2950|1835|322	1291|5107	6.70	0.0096409	1	1.15	1.03	1.28	1.32	1.07	1.63	
NHS	12	0.246|0.253	108|60|15|451|303|53	183|807	0.09	0.7649906	1	1.04	0.80	1.35	1.08	0.64	1.83	
STAGE1-2	2	0.225|0.248	465|259|43|2015|1256|243	767|3514	5.93	0.014861	1	1.18	1.03	1.35	1.39	1.07	1.81	

STAGE2	1	0.218|0.246	357|199|28|1564|953|190	584|2707	6.98	0.0082273	1	1.23	1.05	1.43	1.51	1.11	2.06
PBCS1	20	0.272|0.272	99|77|13|186|139|26	189|351	0.00	0.9546377	1	0.99	0.74	1.32	0.98	0.55	1.75
PLCO	2	0.169|0.232	52|19|3|261|166|21	74|448	3.68	0.0552172	1	1.58	0.99	2.52	2.49	0.97	6.36
WHI	2	0.200|0.248	188|96|11|1010|600|131	295|1741	6.14	0.0132182	1	1.31	1.06	1.62	1.71	1.12	2.61
STAGE3	11	0.214|0.231	322|180|22|936|581|78	524|1595	0.88	0.3485748	1	1.09	0.91	1.29	1.18	0.83	1.68
NHS2	6	0.267|0.230	46|34|6|198|126|15	86|339	1.21	0.2715063	1	0.80	0.54	1.19	0.64	0.29	1.42
PBCS2	3	0.195|0.233	219|111|11|417|254|38	341|709	3.42	0.0644695	1	1.24	0.99	1.56	1.54	0.97	2.44
WHS	24	0.232|0.229	57|35|5|321|201|25	97|547	0.00	0.9679703	1	0.99	0.68	1.45	0.98	0.46	2.10
PBCS 1+2	2	0.223|0.246	318|188|24|602|391|65	530|1058	2.50	0.1138829	1	1.15	0.97	1.38	1.33	0.93	1.90

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.163|0.176	902|356|32|3497|1411|190	1290|5098	6.52	0.010673	1	1.17	1.04	1.31	1.36	1.07	1.72
NHS	15	0.172|0.179	125|53|5|542|240|24	183|806	0.07	0.7931337	1	1.04	0.77	1.41	1.09	0.59	2.00
STAGE1-2	4	0.170|0.175	530|213|24|2412|975|129	767|3516	2.67	0.1020637	1	1.13	0.98	1.31	1.28	0.95	1.73
STAGE2	5	0.170|0.174	405|160|19|1870|735|105	584|2710	2.77	0.096002	1	1.16	0.97	1.37	1.34	0.95	1.88
PBCS1	6	0.251|0.231	107|69|13|208|127|18	189|353	0.60	0.4386169	1	0.89	0.66	1.20	0.79	0.44	1.43
PLCO	6	0.122|0.156	57|16|1|322|112|14	74|448	1.25	0.263967	1	1.35	0.80	2.27	1.81	0.64	5.18
WHI	3	0.134|0.170	221|69|5|1216|460|66	295|1742	4.99	0.0255348	1	1.33	1.03	1.70	1.76	1.07	2.90
STAGE3	4	0.152|0.177	372|143|8|1085|437|61	523|1583	3.94	0.0470144	1	1.22	1.00	1.48	1.48	1.00	2.19
NHS2	17	0.149|0.161	59|25|0|240|79|14	84|333	0.10	0.7484156	1	1.08	0.68	1.72	1.16	0.46	2.95
PBCS2	4	0.156|0.188	243|93|7|467|211|27	343|705	2.96	0.0851781	1	1.24	0.97	1.59	1.54	0.94	2.52
WHS	7	0.141|0.172	70|25|1|378|147|20	96|545	1.95	0.1624582	1	1.37	0.88	2.14	1.88	0.77	4.60
PBCS 1+2	10	0.190|0.202	350|162|20|675|337|45	532|1057	0.91	0.3394918	1	1.10	0.91	1.32	1.20	0.82	1.75

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.210|0.220	811|412|65|3142|1658|292	1288|5092	3.99	0.0458952	1	1.11	1.00	1.24	1.24	1.00	1.54
NHS	1	0.180|0.222	121|58|4|502|251|54	183|807	3.95	0.0468906	1	1.34	1.00	1.79	1.79	1.01	3.19
STAGE1-2	10	0.213|0.217	481|246|40|2194|1121|202	767|3517	0.97	0.3246789	1	1.07	0.94	1.22	1.14	0.87	1.50
STAGE2	23	0.223|0.215	360|188|36|1692|870|148	584|2710	0.00	0.9556468	1	1.00	0.86	1.17	1.01	0.74	1.37
PBCS1	13	0.254|0.245	106|70|13|203|127|23	189|353	0.13	0.7216656	1	0.95	0.71	1.26	0.90	0.51	1.60
PLCO	13	0.209|0.218	48|21|5|277|147|24	74|448	0.18	0.6750393	1	1.09	0.72	1.67	1.20	0.51	2.80
WHI	20	0.212|0.210	187|91|17|1105|544|93	295|1742	0.01	0.9209128	1	0.99	0.80	1.22	0.98	0.65	1.49
STAGE3	2	0.207|0.228	330|166|25|948|539|90	521|1577	4.07	0.0435428	1	1.20	1.01	1.42	1.43	1.01	2.02
NHS2	15	0.204|0.212	53|23|5|207|109|16	81|332	0.17	0.6845016	1	1.09	0.72	1.67	1.19	0.51	2.78
PBCS2	2	0.212|0.254	215|109|18|398|260|50	342|708	4.43	0.0352363	1	1.26	1.02	1.57	1.59	1.03	2.46
WHS	22	0.194|0.203	62|34|2|343|170|24	98|537	0.04	0.8326969	1	1.04	0.70	1.55	1.09	0.49	2.40
PBCS 1+2	3	0.227|0.251	321|179|31|601|385|73	531|1059	2.20	0.1376171	1	1.14	0.96	1.35	1.30	0.92	1.83

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.234|0.250	759|457|74|2885|1879|337	1290|5101	3.47	0.0626066	1	1.10	0.99	1.22	1.22	0.99	1.50
NHS	4	0.219|0.247	110|66|7|470|276|61	183|807	1.30	0.2550583	1	1.17	0.89	1.53	1.36	0.80	2.33
STAGE1-2	5	0.226|0.247	465|258|44|2020|1258|238	767|3516	2.66	0.1026178	1	1.12	0.98	1.27	1.24	0.96	1.62
STAGE2	8	0.228|0.247	355|192|37|1550|982|177	584|2709	1.46	0.2274033	1	1.10	0.94	1.28	1.21	0.89	1.63
PBCS1	22	0.228|0.229	115|62|12|212|119|21	189|352	0.00	0.9971591	1	1.00	0.74	1.34	1.00	0.55	1.80
PLCO	19	0.243|0.253	45|22|7|254|161|33	74|448	0.08	0.7806562	1	1.06	0.71	1.59	1.12	0.50	2.52
WHI	6	0.219|0.249	181|99|15|983|649|110	295|1742	2.92	0.0873839	1	1.20	0.97	1.48	1.44	0.95	2.20
STAGE3	13	0.248|0.258	294|199|30|865|621|98	523|1584	0.76	0.3823492	1	1.08	0.91	1.27	1.16	0.83	1.62
NHS2	23	0.244|0.239	47|33|4|198|117|22	84|337	0.01	0.9244769	1	0.98	0.66	1.45	0.96	0.44	2.11

PBCS2	23	0.265|0.268	185|133|24|372|282|47	342|701	0.00	0.9757255	1	1.00	0.81	1.24	1.01	0.66	1.53
WHS	3	0.191|0.256	62|33|2|295|222|29	97|546	3.78	0.0517773	1	1.49	0.99	2.22	2.21	0.99	4.94
PBCS 1+2	21	0.251|0.256	300|195|36|584|401|69	531|1054	0.01	0.9028057	1	1.01	0.85	1.20	1.02	0.73	1.44

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.132|0.121	984|274|33|3939|1089|75	1291|5103	2.98	0.0845276	1	0.89	0.78	1.02	0.79	0.61	1.03
NHS	2	0.156|0.121	127|55|1|624|169|13	183|806	2.79	0.0947484	1	0.76	0.55	1.05	0.57	0.30	1.10
STAGE1-2	3	0.143|0.122	569|176|22|2710|757|49	767|3516	5.90	0.0151048	1	0.82	0.69	0.96	0.67	0.48	0.93
STAGE2	3	0.140|0.122	442|121|21|2086|588|36	584|2710	3.27	0.0704793	1	0.84	0.70	1.02	0.71	0.49	1.03
PBCS1	2	0.135|0.110	142|43|4|278|72|3	189|353	1.57	0.2106954	1	0.78	0.53	1.15	0.61	0.28	1.32
PLCO	3	0.162|0.116	57|10|7|348|96|4	74|448	2.56	0.1095974	1	0.68	0.42	1.09	0.46	0.18	1.20
WHI	15	0.137|0.126	222|65|8|1330|386|26	295|1742	0.54	0.4634469	1	0.91	0.70	1.17	0.83	0.50	1.38
STAGE3	22	0.115|0.122	415|99|11|1229|335|26	525|1590	0.14	0.7096065	1	1.04	0.84	1.30	1.09	0.70	1.69
NHS2	12	0.138|0.118	67|16|4|261|69|5	87|335	0.35	0.5537299	1	0.86	0.53	1.40	0.75	0.28	1.96
PBCS2	10	0.102|0.119	276|62|4|554|145|12	342|711	1.21	0.2704871	1	1.18	0.88	1.59	1.07	0.77	2.51
WHS	21	0.141|0.128	72|21|3|414|121|9	96|544	0.08	0.7752159	1	0.94	0.60	1.47	0.88	0.36	2.15
PBCS 1+2	22	0.113|0.115	418|104|8|832|214|15	530|1061	0.01	0.9194631	1	1.01	0.80	1.28	1.02	0.64	1.63

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.264|0.282	378|275|47|978|787|146	700|1911	2.63	0.1045345	1	1.13	0.98	1.30	1.27	0.95	1.69
STAGE3	5	0.247|0.278	293|197|30|817|646|116	520|1579	3.72	0.0539222	1	1.18	1.00	1.39	1.39	0.99	1.94
NHS2	16	0.268|0.285	46|28|8|173|133|29	82|335	0.14	0.7074004	1	1.08	0.74	1.57	1.16	0.54	2.48
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	6.21	0.0127186	1	1.32	1.06	1.65	1.75	1.12	2.71
WHS	20	0.273|0.260	51|39|7|294|205|37	97|536	0.10	0.7475645	1	0.94	0.66	1.34	0.89	0.44	1.80
PBCS 1+2	1	0.261|0.293	281|208|32|511|449|80	521|1040	3.69	0.0546932	1	1.18	1.00	1.41	1.40	0.99	1.98

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.357|0.377	525|602|158|2017|2314|764	1285|5095	2.05	0.1524097	1	1.07	0.98	1.17	1.14	0.95	1.37
NHS	8	0.388|0.375	67|90|26|325|359|123	183|807	0.46	0.496414	1	0.92	0.73	1.16	0.85	0.54	1.35
STAGE1-2	22	0.374|0.377	301|359|107|1401|1579|536	767|3516	0.00	0.966694	1	1.00	0.89	1.12	1.00	0.80	1.26
STAGE2	19	0.369|0.378	234|269|81|1076|1220|413	584|2709	0.11	0.7391383	1	1.02	0.90	1.17	1.05	0.80	1.36
PBCS1	14	0.354|0.364	83|78|28|147|154|51	189|352	0.12	0.7342193	1	1.05	0.81	1.35	1.09	0.65	1.83
PLCO	20	0.378|0.376	29|34|11|170|219|59	74|448	0.06	0.8100503	1	0.96	0.66	1.39	0.91	0.43	1.92
WHI	22	0.385|0.384	110|143|42|682|781|279	295|1742	0.01	0.9372913	1	1.01	0.84	1.20	1.01	0.71	1.45
STAGE3	1	0.333|0.377	224|243|51|617|735|228	518|1580	4.86	0.0274846	1	1.19	1.02	1.38	1.41	1.04	1.91
NHS2	7	0.335|0.371	35|39|8|139|147|52	82|338	0.76	0.3828114	1	1.17	0.82	1.67	1.37	0.67	2.80
PBCS2	8	0.335|0.365	146|160|34|286|322|96	340|704	1.50	0.2206407	1	1.13	0.93	1.37	1.28	0.86	1.89
WHS	1	0.323|0.396	43|44|9|192|266|80	96|538	5.62	0.01774	1	1.51	1.07	2.13	2.29	1.15	4.54
PBCS 1+2	7	0.342|0.365	229|238|62|432|476|147	529|1055	1.57	0.2096501	1	1.10	0.95	1.29	1.22	0.89	1.66

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.422|0.431	434|623|232|1673|2433|970	1289|5076	1.74	0.1874091	1	1.06	0.97	1.16	1.13	0.94	1.35
NHS	10	0.448|0.437	57|87|38|240|421|139	182|800	0.27	0.6044438	1	0.94	0.74	1.19	0.88	0.55	1.42
STAGE1-2	9	0.422|0.429	264|358|144|1154|1698|657	766|3509	1.39	0.239165	1	1.07	0.96	1.20	1.15	0.91	1.44
STAGE2	6	0.414|0.427	207|271|106|914|1277|518	584|2709	2.50	0.1136516	1	1.11	0.98	1.27	1.23	0.95	1.60

PBCS1	9	0.476|0.463	55|88|46|97|185|71	189|353	0.28	0.5939945	1	0.93	0.72	1.21	0.87	0.52	1.45
PLCO	4	0.338|0.407	28|42|4|163|205|80	74|448	2.32	0.1280692	1	1.33	0.92	1.93	1.78	0.85	3.74
WHI	8	0.402|0.429	111|131|53|588|813|340	295|1741	1.87	0.1709951	1	1.13	0.95	1.35	1.28	0.90	1.81
STAGE3	17	0.422|0.435	171|265|89|520|739|315	525|1574	0.44	0.5074477	1	1.05	0.91	1.21	1.10	0.83	1.47
NHS2	8	0.403|0.449	31|43|14|105|156|71	88|332	0.72	0.397453	1	1.16	0.83	1.62	1.34	0.68	2.63
PBCS2	11	0.413|0.440	117|165|58|226|346|140	340|712	1.20	0.2736666	1	1.11	0.92	1.34	1.23	0.85	1.79
WHS	8	0.469|0.420	23|57|17|189|237|104	97|530	1.59	0.2078285	1	0.82	0.60	1.12	0.67	0.36	1.25
PBCS 1+2	14	0.435|0.447	171|253|103|322|527|209	527|1058	0.36	0.5459978	1	1.05	0.90	1.22	1.10	0.81	1.48

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.228|0.215	760|466|61|3130|1743|227	1287|5100	1.73	0.1887192	1	0.93	0.84	1.04	0.87	0.70	1.07
NHS	3	0.239|0.209	105|67|10|499|278|30	182|807	1.77	0.1835703	1	0.83	0.63	1.09	0.69	0.39	1.20
STAGE1-2	8	0.224|0.211	459|271|36|2185|1182|150	766|3517	1.45	0.2285036	1	0.92	0.80	1.05	0.84	0.64	1.11
STAGE2	14	0.219|0.211	354|204|26|1686|904|120	584|2710	0.44	0.5058923	1	0.95	0.81	1.11	0.90	0.65	1.23
PBCS1	3	0.228|0.203	115|62|12|219|125|9	189|353	1.14	0.2865018	1	0.84	0.62	1.15	0.71	0.38	1.33
PLCO	7	0.189|0.225	48|24|2|262|170|16	74|448	1.14	0.2846391	1	1.29	0.81	2.06	1.67	0.65	4.25
WHI	12	0.224|0.208	174|110|11|1100|559|83	295|1742	0.85	0.3562533	1	0.91	0.73	1.12	0.82	0.54	1.25
STAGE3	19	0.235|0.226	302|195|25|946|562|77	522|1585	0.25	0.6164261	1	0.96	0.81	1.14	0.92	0.65	1.29
NHS2	11	0.212|0.233	52|30|3|198|115|20	85|333	0.48	0.4903239	1	1.16	0.77	1.74	1.33	0.59	3.03
PBCS2	16	0.234|0.224	198|125|17|422|248|34	340|704	0.12	0.7244246	1	0.96	0.77	1.20	0.92	0.59	1.44
WHS	9	0.258|0.224	52|40|5|326|199|23	97|548	1.20	0.2733422	1	0.81	0.56	1.18	0.66	0.31	1.39
PBCS 1+2	9	0.232|0.217	312|187|29|640|372|43	528|1055	0.92	0.3385112	1	0.92	0.76	1.10	0.84	0.59	1.20

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.360|0.367	511|627|150|2027|2376|676	1288|5079	1.60	0.2065087	1	1.06	0.97	1.17	1.13	0.94	1.36
NHS	11	0.358|0.366	72|91|20|323|377|107	183|807	0.16	0.6876411	1	1.05	0.82	1.34	1.10	0.68	1.80
STAGE1-2	11	0.354|0.364	308|373|85|1393|1684|438	766|3515	0.92	0.3380219	1	1.06	0.94	1.20	1.13	0.88	1.43
STAGE2	12	0.353|0.364	236|282|65|1070|1307|331	583|2708	0.70	0.401653	1	1.06	0.92	1.22	1.13	0.85	1.49
PBCS1	12	0.362|0.375	78|84|26|125|190|37	188|352	0.21	0.6435178	1	1.07	0.81	1.41	1.14	0.66	1.98
PLCO	15	0.345|0.360	29|39|6|180|213|55	74|448	0.12	0.7307059	1	1.07	0.73	1.56	1.14	0.54	2.43
WHI	11	0.344|0.365	123|141|31|693|828|221	295|1742	0.93	0.3352564	1	1.10	0.91	1.32	1.20	0.83	1.75
STAGE3	12	0.368|0.373	203|253|65|634|693|238	521|1565	0.80	0.3701591	1	1.07	0.92	1.24	1.14	0.85	1.54
NHS2	10	0.359|0.392	34|41|10|129|154|56	85|339	0.53	0.4660691	1	1.14	0.80	1.61	1.30	0.65	2.60
PBCS2	18	0.382|0.381	126|171|45|275|321|108	342|704	0.05	0.8158541	1	1.02	0.85	1.24	1.05	0.72	1.53
WHS	16	0.324|0.351	43|41|10|230|218|74	94|522	0.30	0.58661	1	1.09	0.79	1.52	1.20	0.62	2.30
PBCS 1+2	17	0.375|0.379	204|256|71|400|510|145	531|1055	0.15	0.6963134	1	1.03	0.88	1.21	1.06	0.78	1.45

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.323|0.335	582|578|126|2294|2211|606	1286|5111	1.09	0.2959837	1	1.05	0.96	1.15	1.11	0.92	1.33
NHS	6	0.308|0.328	82|88|12|373|339|95	182|807	0.56	0.4541771	1	1.10	0.86	1.40	1.21	0.74	1.97
STAGE1-2	23	0.334|0.337	329|359|76|1564|1530|419	764|3513	0.00	0.9735068	1	1.00	0.89	1.13	1.00	0.79	1.27
STAGE2	17	0.343|0.340	247|271|64|1191|1191|324	582|2706	0.18	0.6731977	1	0.97	0.85	1.11	0.94	0.72	1.24
PBCS1	17	0.321|0.326	84|86|17|161|150|39	187|350	0.01	0.905289	1	1.02	0.77	1.33	1.03	0.60	1.78
PLCO	9	0.365|0.334	28|38|8|190|215|42	74|447	0.49	0.4819824	1	0.87	0.59	1.28	0.76	0.35	1.64
WHI	21	0.346|0.343	126|134|35|768|753|221	295|1742	0.01	0.9247518	1	0.99	0.83	1.19	0.98	0.68	1.41
STAGE3	6	0.308|0.331	252|220|51|727|682|187	523|1596	2.40	0.1210714	1	1.13	0.97	1.31	1.27	0.94	1.73
NHS2	1	0.259|0.324	50|29|8|160|145|39	87|344	3.68	0.0551632	1	1.44	0.99	2.10	2.08	0.98	4.40
PBCS2	20	0.333|0.330	154|148|40|326|301|84	342|711	0.04	0.8492144	1	0.98	0.81	1.19	0.96	0.66	1.41

WHS	5	0.261|0.336	48|43|3|241|236|64	94|541	2.74	0.0976922	1	1.36	0.94	1.96	1.85	0.89	3.83
PBCS 1+2	24	0.327|0.327	239|233|56|490|450|123	528|1063	0.00	0.9834241	1	1.00	0.85	1.17	1.00	0.73	1.36

Locus rs3134615 Alleles G|T Chr 1p34.2 Location 40134653 Neighborhood TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.250|0.243	722|489|77|2906|1906|288	1288|5100	0.98	0.3221761	1	0.95	0.86	1.05	0.90	0.73	1.11
NHS	20	0.260|0.262	101|69|13|433|325|49	183|807	0.01	0.9219257	1	1.01	0.78	1.32	1.03	0.60	1.75
STAGE1-2	14	0.256|0.248	420|302|45|1984|1323|210	767|3517	0.49	0.4838483	1	0.95	0.84	1.09	0.91	0.70	1.18
STAGE2	11	0.254|0.244	319|233|32|1551|998|161	584|2710	0.71	0.3981555	1	0.94	0.81	1.09	0.88	0.65	1.19
PBCS1	18	0.235|0.231	106|77|6|213|117|23	189|353	0.01	0.928855	1	1.01	0.75	1.37	1.03	0.56	1.87
PLCO	17	0.264|0.253	38|33|3|247|175|26	74|448	0.09	0.7646082	1	0.94	0.62	1.42	0.88	0.38	2.03
WHI	14	0.264|0.247	160|114|21|985|654|103	295|1742	0.55	0.4589726	1	0.93	0.76	1.13	0.86	0.57	1.28
STAGE3	16	0.241|0.234	302|188|32|922|585|79	522|1586	0.50	0.4814003	1	0.94	0.79	1.11	0.89	0.63	1.24
NHS2	21	0.229|0.241	52|24|7|190|124|18	83|332	0.03	0.8568281	1	1.04	0.69	1.55	1.08	0.48	2.42
PBCS2	21	0.230|0.225	202|124|17|427|240|39	343|706	0.02	0.876698	1	0.98	0.79	1.22	0.97	0.62	1.50
WHS	6	0.292|0.242	48|40|8|305|221|22	96|548	2.46	0.1164633	1	0.75	0.52	1.08	0.56	0.27	1.16
PBCS 1+2	20	0.232|0.226	308|200|23|640|355|61	531|1056	0.01	0.9026813	1	0.99	0.83	1.18	0.98	0.69	1.39

Locus rs17570439 Alleles T|C Chr 1p34.2 Location 40096797 Neighborhood TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.231|0.224	759|465|65|3076|1762|263	1289|5101	0.91	0.3393006	1	0.95	0.85	1.06	0.90	0.73	1.11
NHS	13	0.238|0.245	107|65|11|457|304|46	183|807	0.09	0.767612	1	1.04	0.79	1.37	1.09	0.63	1.87
STAGE1-2	16	0.233|0.229	446|283|37|2104|1217|196	766|3517	0.18	0.6743908	1	0.97	0.85	1.11	0.94	0.72	1.23
STAGE2	15	0.232|0.224	339|218|26|1647|913|150	583|2710	0.43	0.5118091	1	0.95	0.81	1.11	0.90	0.66	1.23
PBCS1	15	0.214|0.215	113|71|5|223|108|22	189|353	0.06	0.8036849	1	1.04	0.77	1.41	1.08	0.59	1.99
PLCO	23	0.243|0.238	40|32|2|259|165|24	74|448	0.02	0.900189	1	0.97	0.64	1.49	0.95	0.40	2.22
WHI	17	0.238|0.225	171|106|17|1053|594|95	294|1742	0.35	0.5515123	1	0.94	0.76	1.15	0.88	0.58	1.33
STAGE3	10	0.228|0.214	313|182|28|972|545|67	523|1584	1.11	0.2911508	1	0.91	0.77	1.08	0.83	0.59	1.17
NHS2	18	0.235|0.229	51|28|6|194|119|16	85|329	0.10	0.7530559	1	0.94	0.63	1.40	0.88	0.39	1.97
PBCS2	19	0.215|0.210	211|115|16|448|228|35	342|711	0.04	0.8325112	1	0.98	0.78	1.22	0.95	0.61	1.49
WHS	4	0.266|0.211	51|39|6|330|198|16	96|544	3.11	0.0777223	1	0.71	0.49	1.04	0.51	0.24	1.08
PBCS 1+2	23	0.215|0.211	324|186|21|671|336|57	531|1064	0.00	0.9750411	1	1.00	0.83	1.19	0.99	0.69	1.42

Locus rs11077820 Alleles T|C Chr 17q25.1 Location 71966263 Neighborhood UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.360|0.367	533|588|171|2093|2255|738	1292|5086	0.42	0.5153368	1	1.03	0.94	1.13	1.06	0.89	1.27
NHS	17	0.374|0.374	73|83|27|329|353|125	183|807	0.03	0.858473	1	0.98	0.78	1.23	0.96	0.60	1.52
STAGE1-2	21	0.362|0.368	311|356|100|1447|1549|517	767|3513	0.01	0.9181467	1	1.01	0.90	1.13	1.01	0.80	1.27
STAGE2	22	0.359|0.366	238|273|73|1118|1196|392	584|2706	0.04	0.8403518	1	1.01	0.89	1.16	1.03	0.79	1.34
PBCS1	1	0.381|0.334	74|86|29|160|150|43	189|353	2.24	0.1343984	1	0.82	0.63	1.06	0.67	0.40	1.13
PLCO	18	0.358|0.354	30|35|9|188|200|58	74|446	0.08	0.7795843	1	0.95	0.66	1.37	0.90	0.43	1.88
WHI	7	0.342|0.378	124|140|31|694|776|270	295|1740	2.61	0.1061023	1	1.16	0.97	1.39	1.35	0.94	1.95
STAGE3	14	0.356|0.365	222|232|71|646|707|221	525|1574	0.74	0.3912237	1	1.07	0.92	1.24	1.14	0.85	1.53
NHS2	9	0.341|0.373	41|30|14|133|153|48	85|334	0.64	0.422953	1	1.15	0.82	1.63	1.33	0.66	2.65
PBCS2	13	0.366|0.382	141|153|49|269|335|102	343|706	0.44	0.507321	1	1.07	0.88	1.29	1.14	0.78	1.66
WHS	23	0.335|0.338	40|49|8|244|219|71	97|534	0.01	0.9372737	1	1.01	0.73	1.40	1.03	0.54	1.96
PBCS 1+2	19	0.371|0.366	215|239|78|429|484|145	532|1058	0.08	0.7710778	1	0.98	0.84	1.14	0.96	0.70	1.30

Locus rs12622050 Alleles G|A Chr 2q11.2 Location 100945886 Neighborhood NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.225|0.209	779|439|70|3197|1647|236	1288|5080	0.42	0.5166076	1	0.97	0.87	1.07	0.93	0.75	1.15
NHS	21	0.191|0.189	122|52|9|529|251|27	183|807	0.00	0.971631	1	0.99	0.74	1.33	0.99	0.55	1.77
STAGE1-2	17	0.202|0.200	492|240|35|2262|1101|152	767|3515	0.10	0.7466597	1	1.02	0.89	1.18	1.05	0.79	1.38
STAGE2	18	0.205|0.203	370|188|26|1733|850|125	584|2708	0.15	0.6979016	1	1.03	0.88	1.21	1.06	0.78	1.46
PBCS1	5	0.222|0.249	114|66|9|204|121|27	189|352	0.90	0.343162	1	1.15	0.86	1.55	1.33	0.74	2.40
PLCO	22	0.203|0.195	47|24|3|288|145|15	74|448	0.03	0.8526203	1	0.96	0.61	1.50	0.92	0.38	2.24
WHI	19	0.198|0.194	192|89|14|1138|530|73	295|1741	0.06	0.812432	1	0.97	0.78	1.21	0.95	0.61	1.47
STAGE3	7	0.258|0.228	287|199|35|936|547|83	521|1566	2.08	0.1493254	1	0.88	0.75	1.05	0.78	0.56	1.09
NHS2	20	0.204|0.216	51|27|3|202|112|15	81|329	0.05	0.824949	1	1.05	0.68	1.62	1.10	0.46	2.62
PBCS2	6	0.278|0.245	177|141|25|402|254|45	343|701	2.21	0.1371565	1	0.85	0.69	1.05	0.73	0.48	1.11
WHS	13	0.232|0.212	59|31|7|332|181|23	97|536	0.45	0.5004475	1	0.88	0.61	1.27	0.78	0.37	1.63
PBCS 1+2	13	0.258|0.247	291|207|34|605|374|73	532|1052	0.40	0.5293969	1	0.95	0.80	1.12	0.90	0.64	1.26

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.024|0.026	1229|59|2|4833|251|9	1290|5093	0.40	0.5278626	1	1.09	0.83	1.45	1.20	0.68	2.10
NHS	7	0.022|0.026	175|8|0|765|42|0	183|807	0.53	0.4665534	1	1.34	0.61	2.93	1.79	0.37	8.58
STAGE1-2	15	0.022|0.025	733|34|0|3341|174|2	767|3517	0.46	0.4990331	1	1.14	0.78	1.67	1.30	0.61	2.77
STAGE2	16	0.022|0.025	558|26|0|2576|132|2	584|2710	0.21	0.6455982	1	1.11	0.72	1.71	1.23	0.51	2.92
PBCS1	16	0.021|0.024	181|8|0|336|17|0	189|353	0.02	0.8763622	1	1.07	0.45	2.57	1.15	0.20	6.60
PLCO	16	0.020|0.026	71|3|0|425|23|0	74|448	0.09	0.7592955	1	1.21	0.35	4.22	1.47	0.12	17.78
WHI	23	0.025|0.025	280|15|0|1655|86|1	295|1742	0.00	0.9922444	1	1.00	0.57	1.76	1.01	0.33	3.08
STAGE3	23	0.028|0.029	496|25|2|1493|77|7	523|1577	0.05	0.8149234	1	1.05	0.69	1.59	1.10	0.48	2.54
NHS2	24	0.000|0.030	84|0|0|321|14|3	84|338									
PBCS2	14	0.033|0.028	322|21|1|669|40|0	344|709	0.40	0.5257804	1	0.84	0.50	1.43	0.71	0.25	2.03
WHS	15	0.032|0.029	90|4|1|503|23|4	95|530	0.33	0.565736	1	0.79	0.36	1.76	0.63	0.13	3.10
PBCS 1+2	15	0.029|0.027	503|29|1|1004|57|0	533|1061	0.23	0.6350156	1	0.90	0.57	1.41	0.80	0.33	1.98

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.370|0.367	513|560|186|2015|2294|686	1259|4995	0.24	0.625167	1	0.98	0.89	1.07	0.96	0.79	1.15
NHS	16	0.369|0.362	77|68|31|333|343|115	176|791	0.07	0.7954004	1	0.97	0.77	1.22	0.94	0.59	1.50
STAGE1-2	13	0.376|0.362	227|246|88|1268|1397|418	561|3083	0.77	0.379443	1	0.94	0.83	1.08	0.89	0.69	1.16
STAGE2	10	0.379|0.362	150|178|57|935|1054|303	385|2292	0.78	0.3762784	1	0.93	0.80	1.09	0.87	0.64	1.19
PLCO	11	0.396|0.372	26|35|11|181|186|69	72|436	0.39	0.5313266	1	0.89	0.63	1.27	0.80	0.39	1.62
WHI	10	0.387|0.362	111|131|46|680|800|212	288|1692	1.21	0.2709996	1	0.90	0.75	1.08	0.81	0.56	1.18
STAGE3	15	0.382|0.374	203|238|80|618|750|218	521|1586	0.61	0.4356202	1	0.94	0.81	1.09	0.89	0.66	1.20
NHS2	13	0.419|0.404	32|36|18|122|166|56	86|344	0.30	0.5868069	1	0.91	0.65	1.28	0.83	0.42	1.63
PBCS2	22	0.362|0.360	134|163|41|283|324|88	338|695	0.00	0.9536473	1	0.99	0.82	1.21	0.99	0.67	1.46
WHS	11	0.418|0.373	37|39|21|213|260|74	97|547	0.79	0.3730722	1	0.87	0.63	1.19	0.75	0.40	1.41
PBCS 1+2	8	0.347|0.366	217|239|59|412|471|138	515|1021	0.94	0.331952	1	1.08	0.92	1.27	1.17	0.85	1.61

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPF1BP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.162|0.160	908|352|33|3629|1305|166	1293|5100	0.16	0.6915283	1	0.98	0.87	1.10	0.95	0.75	1.21
NHS	14	0.164|0.168	129|48|6|572|199|36	183|807	0.07	0.7854553	1	1.04	0.78	1.40	1.08	0.60	1.95
STAGE1-2	6	0.175|0.161	522|222|23|2508|881|126	767|3515	1.79	0.1807751	1	0.91	0.78	1.05	0.82	0.61	1.10
STAGE2	4	0.178|0.159	393|174|17|1936|682|90	584|2708	2.98	0.0843247	1	0.86	0.73	1.02	0.75	0.53	1.04
PBCS1	11	0.148|0.156	134|54|1|259|76|17	189|352	0.23	0.6334951	1	1.09	0.77	1.54	1.18	0.59	2.36
PLCO	1	0.230|0.160	41|32|1|318|117|13	74|448	4.77	0.0289811	1	0.61	0.39	0.96	0.37	0.15	0.91

WHI	5	0.186|0.157	200|80|15|1244|446|51	295|1741	3.37	0.0664428	1	0.81	0.65	1.01	0.66	0.42	1.03
STAGE3	9	0.143|0.159	386|130|10|1121|424|40	526|1585	1.12	0.2890882	1	1.12	0.91	1.37	1.24	0.83	1.87
NHS2	14	0.161|0.151	61|24|2|246|82|10	87|338	0.18	0.6721855	1	0.91	0.58	1.43	0.82	0.33	2.03
PBCS2	7	0.136|0.158	254|81|6|496|184|18	341|698	1.66	0.1980188	1	1.19	0.91	1.55	1.41	0.83	2.40
WHS	17	0.148|0.166	71|25|2|379|158|12	98|549	0.24	0.621692	1	1.12	0.72	1.74	1.25	0.52	3.03
PBCS 1+2	5	0.141|0.157	388|135|7|755|260|35	530|1050	1.84	0.1744913	1	1.16	0.94	1.42	1.34	0.88	2.03

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.404|0.417	446|647|199|1696|2557|852	1292|5105	0.14	0.7044645	1	1.02	0.93	1.12	1.04	0.86	1.24
NHS	18	0.434|0.429	54|99|30|253|415|139	183|807	0.03	0.8693778	1	0.98	0.77	1.24	0.96	0.60	1.55
STAGE1-2	12	0.403|0.424	264|388|115|1133|1787|597	767|3517	0.82	0.3659831	1	1.06	0.94	1.19	1.11	0.88	1.41
STAGE2	9	0.393|0.422	210|289|85|880|1372|458	584|2710	1.30	0.2536988	1	1.08	0.95	1.24	1.17	0.89	1.53
PBCS1	21	0.368|0.368	74|91|24|141|164|48	189|353	0.00	0.9739833	1	1.00	0.76	1.30	0.99	0.58	1.68
PLCO	10	0.426|0.393	25|35|14|162|220|66	74|448	0.41	0.5200337	1	0.89	0.62	1.28	0.79	0.38	1.63
WHI	4	0.403|0.444	100|152|43|517|903|322	295|1742	3.38	0.0660823	1	1.19	0.99	1.43	1.41	0.98	2.04
STAGE3	21	0.407|0.403	182|260|84|563|771|255	526|1589	0.21	0.6495011	1	0.97	0.83	1.12	0.93	0.70	1.25
NHS2	4	0.482|0.425	22|43|19|115|159|64	84|338	1.69	0.1941551	1	0.80	0.57	1.12	0.64	0.32	1.26
PBCS2	17	0.397|0.386	122|171|51|266|333|105	344|704	0.12	0.7285797	1	0.97	0.80	1.17	0.94	0.64	1.37
WHS	12	0.378|0.412	38|46|14|182|279|86	98|547	0.48	0.4877719	1	1.12	0.81	1.56	1.26	0.66	2.42
PBCS 1+2	18	0.386|0.380	196|261|75|407|496|153	532|1056	0.15	0.7003384	1	0.97	0.83	1.13	0.94	0.69	1.28

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.267|0.273	597|424|83|2281|1695|328	1104|4304	0.10	0.7522917	1	1.02	0.91	1.13	1.04	0.83	1.28
STAGE1-2	20	0.276|0.275	308|228|47|1429|1071|209	583|2709	0.04	0.8342136	1	0.98	0.85	1.14	0.97	0.73	1.29
STAGE2	21	0.276|0.275	308|228|47|1429|1071|209	583|2709	0.04	0.8352394	1	0.98	0.85	1.14	0.97	0.73	1.29
PBCS1	8	0.250|0.265	106|70|12|198|123|32	188|353	0.37	0.5452786	1	1.09	0.82	1.45	1.19	0.68	2.09
PLCO	21	0.257|0.271	44|22|8|235|182|30	74|447	0.06	0.8113677	1	1.05	0.70	1.58	1.10	0.49	2.50
WHI	16	0.295|0.280	145|126|24|901|708|133	295|1742	0.46	0.4956524	1	0.93	0.77	1.14	0.87	0.59	1.29
STAGE3	18	0.258|0.270	290|196|37|852|624|119	523|1595	0.39	0.5341548	1	1.05	0.90	1.24	1.11	0.80	1.53
NHS2	19	0.286|0.281	45|30|9|176|134|28	84|338	0.09	0.7675269	1	0.95	0.65	1.37	0.89	0.43	1.88
PBCS2	9	0.244|0.265	198|121|23|381|280|48	342|709	1.23	0.2670358	1	1.13	0.91	1.39	1.27	0.83	1.94
WHS	14	0.284|0.270	47|45|5|295|210|43	97|548	0.38	0.5379449	1	0.90	0.63	1.27	0.80	0.40	1.62
PBCS 1+2	6	0.245|0.265	303|191|34|579|403|80	528|1062	1.77	0.1829368	1	1.12	0.95	1.33	1.26	0.90	1.77

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.108|0.109	1029|245|17|4054|1012|52	1291|5118	0.01	0.9288391	1	1.01	0.87	1.16	1.01	0.76	1.35
NHS	9	0.117|0.108	145|33|5|642|155|10	183|807	0.39	0.5305295	1	0.89	0.63	1.27	0.80	0.39	1.62
STAGE1-2	19	0.108|0.110	612|144|11|2781|693|41	767|3515	0.06	0.8105431	1	1.02	0.85	1.23	1.05	0.73	1.51
STAGE2	13	0.105|0.111	467|111|6|2139|538|31	584|2708	0.46	0.4988151	1	1.08	0.87	1.33	1.16	0.76	1.77
PBCS1	4	0.101|0.123	152|36|1|270|79|4	189|353	0.99	0.3204464	1	1.24	0.81	1.88	1.53	0.66	3.53
PLCO	12	0.122|0.106	56|18|0|357|87|4	74|448	0.21	0.6490349	1	0.88	0.50	1.55	0.77	0.25	2.39
WHI	18	0.107|0.110	236|55|4|1378|341|21	295|1740	0.07	0.7941152	1	1.04	0.78	1.38	1.08	0.61	1.91
STAGE3	24	0.108|0.106	417|101|6|1275|319|11	524|1605	0.03	0.8580165	1	0.98	0.77	1.24	0.96	0.60	1.53
NHS2	5	0.137|0.099	65|15|4|280|56|6	84|342	1.31	0.2516796	1	0.75	0.47	1.22	0.57	0.22	1.50
PBCS2	24	0.105|0.107	273|68|2|565|143|5	343|713	0.00	0.9776755	1	1.00	0.74	1.36	1.01	0.55	1.86
WHS	10	0.093|0.109	79|18|0|430|120|0	97|550	0.92	0.3363342	1	1.32	0.75	2.32	1.74	0.56	5.37
PBCS 1+2	12	0.103|0.113	425|104|3|833|222|9	532|1064	0.47	0.4930202	1	1.09	0.85	1.39	1.19	0.73	1.95

Locus	Alleles	Chr	Location	Neighborhood									
rs4666451	G|A	2p24.1		19150424									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.387|0.385	415|528|164|1621|2044|634	1107|4299	0.01	0.9316755	1	1.00	0.91	1.11	1.01	0.83	1.23
STAGE1-2	7	0.363|0.383	236|272|76|1028|1286|396	584|2710	1.66	0.1969309	1	1.09	0.95	1.25	1.19	0.91	1.56
STAGE2	7	0.363|0.383	236|272|76|1028|1286|396	584|2710	1.62	0.2025857	1	1.09	0.95	1.25	1.19	0.91	1.56
PBCS1	19	0.384|0.375	67|99|23|140|161|52	189|353	0.01	0.9333585	1	0.99	0.76	1.29	0.98	0.58	1.66
PLCO	8	0.338|0.394	30|38|6|170|203|75	74|448	1.14	0.2861596	1	1.22	0.85	1.76	1.49	0.72	3.09
WHI	9	0.351|0.378	130|123|42|672|822|248	295|1742	1.44	0.2307306	1	1.12	0.93	1.34	1.25	0.87	1.81
STAGE3	8	0.413|0.388	179|257|88|593|760|238	524|1591	1.51	0.2189369	1	0.91	0.79	1.06	0.83	0.62	1.12
NHS2	3	0.436|0.370	31|35|20|128|165|41	86|334	2.60	0.1069761	1	0.75	0.53	1.06	0.57	0.28	1.13
PBCS2	15	0.411|0.398	111|181|50|263|330|118	342|711	0.19	0.6600289	1	0.96	0.79	1.16	0.92	0.63	1.34
WHS	19	0.401|0.387	37|41|18|202|265|79	96|546	0.16	0.6928794	1	0.94	0.68	1.29	0.88	0.47	1.66
PBCS 1+2	16	0.401|0.390	178|279|73|403|489|170	530|1062	0.22	0.6367663	1	0.96	0.83	1.12	0.93	0.68	1.26

Locus	Alleles	Chr	Location	Neighborhood									
rs1274466	T|C	10p11.21		34510210 PARD3									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.437|0.434	399|650|238|1648|2482|973	1287|5103	0.00	0.9553549	1	1.00	0.91	1.09	0.99	0.83	1.19
NHS	19	0.432|0.436	55|98|30|261|388|158	183|807	0.01	0.9135183	1	1.01	0.80	1.28	1.03	0.65	1.63
STAGE1-2	18	0.428|0.429	239|399|129|1164|1687|665	767|3516	0.10	0.7470288	1	1.02	0.91	1.14	1.04	0.83	1.30
STAGE2	20	0.427|0.427	184|301|99|903|1299|507	584|2709	0.09	0.7597864	1	1.02	0.90	1.16	1.04	0.80	1.35
PBCS1	7	0.439|0.457	57|98|34|104|174|74	189|352	0.56	0.4522646	1	1.10	0.85	1.43	1.22	0.73	2.04
PLCO	5	0.453|0.391	22|37|15|167|212|69	74|448	2.04	0.1532716	1	0.77	0.54	1.10	0.59	0.29	1.22
WHI	13	0.408|0.428	99|151|45|579|835|328	295|1742	0.80	0.3699098	1	1.08	0.91	1.29	1.18	0.83	1.68
STAGE3	20	0.450|0.445	161|251|109|484|795|309	521|1588	0.25	0.6179835	1	0.96	0.83	1.11	0.93	0.70	1.24
NHS2	2	0.506|0.432	19|46|20|106|166|61	85|333	3.23	0.0724916	1	0.73	0.52	1.03	0.53	0.27	1.06
PBCS2	12	0.432|0.451	115|156|69|211|357|141	340|709	0.45	0.5043339	1	1.07	0.89	1.28	1.13	0.78	1.64
WHS	18	0.464|0.445	27|49|20|167|272|107	96|546	0.16	0.6884462	1	0.94	0.68	1.29	0.88	0.47	1.66
PBCS 1+2	11	0.436|0.452	171|254|103|315|531|214	528|1060	0.89	0.3464377	1	1.07	0.92	1.25	1.16	0.86	1.56

adj_rec

Locus	Alleles	Chr	Location	Neighborhood								
rs12608723	A|G	19q13.11		38508973								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	1	0.132|0.121	984|274|33|3939|1089|75	1291|5103	8.36	0.0038332	1	0.54	0.35		0.82	
NHS	5	0.156|0.121	127|55|1|624|169|13	183|806	1.58	0.2089969	1	3.45	0.44	26.83		
STAGE1-2	1	0.143|0.122	569|176|22|2710|757|49	767|3516	9.84	0.0017097	1	0.44	0.26	0.75		
STAGE2	1	0.140|0.122	442|121|21|2086|588|36	584|2710	17.23	3.30E-05	1	0.32	0.18	0.56		
PBCS1	8	0.135|0.110	142|43|4|278|72|3	189|353	1.39	0.2377492	1	0.41	0.09	1.88		
PLCO	1	0.162|0.116	57|10|7|348|96|4	74|448	23.15	1.50E-06	1	0.07	0.02	0.27		
WHI	7	0.137|0.126	222|65|8|1330|386|26	295|1742	2.40	0.1212929	1	0.53	0.24	1.20		
STAGE3	17	0.115|0.122	415|99|11|1229|335|26	525|1590	0.50	0.4788938	1	0.77	0.37	1.60		
NHS2	2	0.138|0.118	67|16|4|261|69|5	87|335	3.11	0.0780113	1	0.31	0.08	1.21		
PBCS2	11	0.102|0.119	276|62|4|554|145|12	342|711	0.49	0.4851965	1	1.50	0.48	4.76		
WHS	15	0.141|0.128	72|21|3|414|121|9	96|544	0.44	0.5071847	1	0.63	0.16	2.48		
PBCS 1+2	22	0.113|0.115	418|104|8|832|214|15	530|1061	0.01	0.9116779	1	0.95	0.40	2.27		

Locus	Alleles	Chr	Location	Neighborhood								
rs2067980	A|G	5p12		45018074								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	2	0.163|0.176	902|356|32|3497|1411|190	1290|5098	6.77	0.0092552	1	1.67	1.13	2.46		
NHS	20	0.172|0.179	125|53|5|542|240|24	183|806	0.01	0.9285803	1	1.05	0.39	2.79		

STAGE1-2	6	0.170|0.175	530|213|24|2412|975|129	767|3516	1.45	0.2278844	1	1.32	0.84	2.08
STAGE2	4	0.170|0.174	405|160|19|1870|735|105	584|2710	1.56	0.2121423	1	1.38	0.83	2.30
PBCS1	13	0.251|0.231	107|69|13|208|127|18	189|353	1.00	0.3177934	1	0.68	0.32	1.45
PLCO	8	0.122|0.156	57|16|1|322|112|14	74|448	0.86	0.3531803	1	2.56	0.33	20.04
WHI	5	0.134|0.170	221|69|5|1216|460|66	295|1742	3.25	0.071436	1	2.28	0.91	5.72
STAGE3	1	0.152|0.177	372|143|8|1085|437|61	523|1583	7.22	0.0071973	1	2.72	1.28	5.78
NHS2	23	0.149|0.161	59|25|0|240|79|14	84|333						
PBCS2	2	0.156|0.188	243|93|7|467|211|27	343|705	2.64	0.1041034	1	1.99	0.85	4.65
WHS	6	0.141|0.172	70|25|1|378|147|20	96|545	2.05	0.1521415	1	4.00	0.52	30.74
PBCS 1+2	13	0.190|0.202	350|162|20|675|337|45	532|1057	0.32	0.5688201	1	1.17	0.68	2.02

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.397|0.441	474|598|209|1590|2476|993	1281|5059	5.32	0.0210882	1	1.22	1.03	1.44
NHS	18	0.412|0.448	65|84|33|238|411|155	182|804	0.03	0.856611	1	1.04	0.68	1.58
STAGE1-2	2	0.402|0.443	270|373|121|1070|1756|674	764|3500	3.80	0.051372	1	1.24	1.00	1.53
STAGE2	3	0.399|0.442	205|289|88|832|1345|519	582|2696	4.15	0.0415287	1	1.30	1.01	1.67
PBCS1	14	0.392|0.407	67|96|26|124|171|58	189|353	0.69	0.407344	1	1.24	0.75	2.06
PLCO	16	0.411|0.427	26|34|13|140|232|75	73|447	0.09	0.7665326	1	0.90	0.47	1.76
WHI	1	0.396|0.455	105|145|44|514|857|359	294|1730	5.50	0.0190448	1	1.50	1.07	2.12
STAGE3	7	0.388|0.436	204|225|88|520|720|319	517|1559	1.72	0.1891216	1	1.20	0.92	1.56
NHS2	22	0.453|0.446	27|40|19|107|147|72	86|326	0.00	0.9965037	1	1.00	0.56	1.78
PBCS2	7	0.372|0.410	137|149|51|246|324|121	337|691	1.03	0.3105523	1	1.21	0.84	1.73
WHS	13	0.383|0.462	40|36|18|167|249|126	94|542	0.76	0.3845351	1	1.28	0.73	2.25
PBCS 1+2	6	0.379|0.409	204|245|77|370|495|179	526|1044	1.66	0.1978274	1	1.21	0.90	1.63

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.357|0.377	525|602|158|2017|2314|764	1285|5095	5.00	0.0254148	1	1.24	1.03	1.49
NHS	17	0.388|0.375	67|90|26|325|359|123	183|807	0.03	0.8523212	1	1.04	0.66	1.66
STAGE1-2	13	0.374|0.377	301|359|107|1401|1579|536	767|3516	0.87	0.3523042	1	1.11	0.89	1.40
STAGE2	11	0.369|0.378	234|269|81|1076|1220|413	584|2709	0.78	0.3762113	1	1.13	0.87	1.47
PBCS1	18	0.354|0.364	83|78|28|147|154|51	189|352	0.02	0.8957055	1	0.97	0.58	1.61
PLCO	12	0.378|0.376	29|34|11|170|219|59	74|448	0.31	0.578032	1	0.82	0.40	1.68
WHI	11	0.385|0.384	110|143|42|682|781|279	295|1742	0.85	0.3577413	1	1.18	0.83	1.68
STAGE3	2	0.333|0.377	224|243|51|617|735|228	518|1580	5.78	0.0161709	1	1.49	1.08	2.07
NHS2	4	0.335|0.371	35|39|8|139|147|52	82|338	1.71	0.1909625	1	1.69	0.76	3.73
PBCS2	4	0.335|0.365	146|160|34|286|322|96	340|704	2.43	0.119018	1	1.39	0.92	2.12
WHS	3	0.323|0.396	43|44|9|192|266|80	96|538	3.15	0.0757731	1	1.96	0.92	4.17
PBCS 1+2	9	0.342|0.365	229|238|62|432|476|147	529|1055	1.50	0.2212482	1	1.22	0.89	1.68

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.323|0.335	582|578|126|2294|2211|606	1286|5111	4.49	0.0341834	1	1.25	1.02	1.54
NHS	2	0.308|0.328	82|88|12|373|339|95	182|807	4.36	0.0368691	1	1.93	1.03	3.61
STAGE1-2	3	0.334|0.337	329|359|76|1564|1530|419	764|3513	2.33	0.1265112	1	1.23	0.94	1.60
STAGE2	15	0.343|0.340	247|271|64|1191|1191|324	582|2706	0.32	0.5708876	1	1.09	0.81	1.46
PBCS1	15	0.321|0.326	84|86|17|161|150|39	187|350	0.45	0.5022704	1	1.23	0.67	2.26
PLCO	17	0.365|0.334	28|38|8|190|215|42	74|447	0.09	0.7665631	1	0.88	0.39	2.01
WHI	16	0.346|0.343	126|134|35|768|753|221	295|1742	0.29	0.5899018	1	1.11	0.76	1.63
STAGE3	4	0.308|0.331	252|220|51|727|682|187	523|1596	2.01	0.1565342	1	1.27	0.91	1.78

NHS2	15	0.259|0.324	50|29|8|160|145|39	87|344	0.53	0.4657791	1	1.35	0.60	3.04
PBCS2	22	0.333|0.330	154|148|40|326|301|84	342|711	0.00	0.9742771	1	1.01	0.67	1.51
WHS	1	0.261|0.336	48|43|3|24|236|64	94|541	4.51	0.0337788	1	3.37	1.03	11.02
PBCS 1+2	17	0.327|0.327	239|233|56|490|450|123	528|1063	0.21	0.643486	1	1.08	0.77	1.52

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	6	0.360|0.367	511|627|150|2027|2376|676	1288|5079	3.85	0.0497017	1	1.21	1.00	1.47
NHS	12	0.358|0.366	72|91|20|323|377|107	183|807	0.71	0.4005383	1	1.24	0.75	2.08
STAGE1-2	8	0.354|0.364	308|373|85|1393|1684|438	766|3515	1.17	0.2797355	1	1.15	0.89	1.48
STAGE2	13	0.353|0.364	236|282|65|1070|1307|331	583|2708	0.52	0.4711651	1	1.11	0.83	1.49
PBCS1	9	0.362|0.375	78|84|26|125|190|37	188|352	1.23	0.2665717	1	0.74	0.43	1.27
PLCO	5	0.345|0.360	29|39|6|180|213|55	74|448	1.60	0.2059461	1	1.78	0.72	4.42
WHI	10	0.344|0.365	123|141|31|693|828|221	295|1742	1.16	0.2808239	1	1.25	0.84	1.86
STAGE3	3	0.368|0.373	203|253|65|634|693|238	521|1565	3.25	0.0715378	1	1.32	0.98	1.78
NHS2	7	0.359|0.392	34|41|10|129|154|56	85|339	1.11	0.291726	1	1.48	0.71	3.05
PBCS2	6	0.382|0.381	126|171|45|275|321|108	342|704	1.19	0.2745257	1	1.24	0.85	1.80
WHS	10	0.324|0.351	43|41|10|230|218|74	94|522	0.99	0.3192697	1	1.44	0.70	2.94
PBCS 1+2	19	0.375|0.379	204|256|71|400|510|145	531|1055	0.08	0.7726134	1	1.05	0.77	1.42

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	7	0.220|0.243	787|439|65|2950|1835|322	1291|5107	3.00	0.0833302	1	1.28	0.97	1.70
NHS	13	0.246|0.253	108|60|15|451|303|53	183|807	0.61	0.4349386	1	0.79	0.43	1.44
STAGE1-2	4	0.225|0.248	465|259|43|2015|1256|243	767|3514	2.21	0.1375278	1	1.29	0.92	1.82
STAGE2	2	0.218|0.246	357|199|28|1564|953|190	584|2707	4.57	0.0325657	1	1.57	1.04	2.38
PBCS1	19	0.272|0.272	99|77|13|186|139|26	189|351	0.01	0.9107626	1	1.04	0.52	2.10
PLCO	15	0.169|0.232	52|19|3|261|166|21	74|448	0.18	0.6675149	1	1.31	0.38	4.60
WHI	2	0.200|0.248	188|96|11|1010|600|131	295|1741	5.38	0.0203231	1	2.08	1.11	3.89
STAGE3	16	0.214|0.231	322|180|22|936|581|78	524|1595	0.54	0.4632656	1	1.20	0.73	1.97
NHS2	9	0.267|0.230	46|34|6|198|126|15	86|339	0.96	0.3273122	1	0.61	0.22	1.66
PBCS2	3	0.195|0.233	219|111|11|417|254|38	341|709	2.47	0.1161168	1	1.73	0.87	3.44
WHS	20	0.232|0.229	57|35|5|321|201|25	97|547	0.07	0.7906532	1	0.87	0.32	2.38
PBCS 1+2	2	0.223|0.246	318|188|24|602|391|65	530|1058	2.04	0.1534229	1	1.42	0.88	2.31

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	8	0.210|0.220	811|412|65|3142|1658|292	1288|5092	1.98	0.1595603	1	1.22	0.92	1.63
NHS	1	0.180|0.222	121|58|4|502|251|54	183|807	5.40	0.0201591	1	3.20	1.14	8.99
STAGE1-2	15	0.213|0.217	481|246|40|2194|1121|202	767|3517	0.80	0.3698875	1	1.18	0.82	1.68
STAGE2	17	0.223|0.215	360|188|36|1692|870|148	584|2710	0.10	0.7484048	1	0.94	0.64	1.38
PBCS1	21	0.254|0.245	106|70|13|203|127|23	189|353	0.00	0.9570011	1	1.02	0.50	2.09
PLCO	18	0.209|0.218	48|21|5|277|147|24	74|448	0.08	0.7731585	1	0.86	0.31	2.41
WHI	19	0.212|0.210	187|91|17|1105|544|93	295|1742	0.09	0.7691037	1	0.92	0.54	1.58
STAGE3	8	0.207|0.228	330|166|25|948|539|90	521|1577	1.45	0.2286439	1	1.33	0.84	2.12
NHS2	18	0.204|0.212	53|23|5|207|109|16	81|332	0.15	0.6971919	1	0.81	0.28	2.32
PBCS2	5	0.212|0.254	215|109|18|398|260|50	342|708	1.28	0.2580943	1	1.38	0.79	2.41
WHS	11	0.194|0.203	62|34|2|343|170|24	98|537	0.98	0.3221811	1	2.07	0.48	8.95
PBCS 1+2	12	0.227|0.251	321|179|31|601|385|73	531|1059	0.79	0.3733988	1	1.22	0.79	1.89

Locus Alleles Chr Location Neighborhood

rs7936636	C|T	11p11.2	44397546								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	9	0.234|0.250	759|457|74|2885|1879|337	1290|5101	1.66	0.1979259	1	1.19	0.91	1.55	
NHS	3	0.219|0.247	110|66|7|470|276|61	183|807	3.28	0.0700853	1	2.07	0.93	4.62	
STAGE1-2	10	0.226|0.247	465|258|44|2020|1258|238	767|3516	1.08	0.2979377	1	1.20	0.85	1.68	
STAGE2	21	0.228|0.247	355|192|37|1550|982|177	584|2709	0.02	0.9003877	1	1.02	0.70	1.49	
PBCS1	20	0.228|0.229	115|62|12|212|119|21	189|352	0.01	0.9254991	1	0.97	0.46	2.02	
PLCO	9	0.243|0.253	45|22|7|254|161|33	74|448	0.80	0.372139	1	0.67	0.28	1.62	
WHI	12	0.219|0.249	181|99|15|983|649|110	295|1742	0.73	0.3941471	1	1.27	0.73	2.22	
STAGE3	19	0.248|0.258	294|199|30|865|621|98	523|1584	0.42	0.5185179	1	1.15	0.75	1.77	
NHS2	16	0.244|0.239	47|33|4|198|117|22	84|337	0.47	0.4920307	1	1.47	0.49	4.44	
PBCS2	14	0.265|0.268	185|133|24|372|282|47	342|701	0.10	0.7500824	1	0.92	0.55	1.54	
WHS	5	0.191|0.256	62|33|2|295|222|29	97|546	2.18	0.1399485	1	2.91	0.66	12.77	
PBCS 1+2	20	0.251|0.256	300|195|36|584|401|69	531|1054	0.04	0.8361451	1	0.96	0.63	1.46	

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	10	0.162|0.160	908|352|33|3629|1305|166	1293|5100	1.37	0.2426712	1	1.26	0.86	1.85
NHS	11	0.164|0.168	129|48|6|572|199|36	183|807	0.75	0.3853805	1	1.48	0.61	3.59
STAGE1-2	14	0.175|0.161	522|222|23|2508|881|126	767|3515	0.86	0.3549183	1	1.24	0.78	1.97
STAGE2	16	0.178|0.159	393|174|17|1936|682|90	584|2708	0.32	0.5711831	1	1.17	0.68	2.00
PBCS1	1	0.148|0.156	134|54|1|259|76|17	189|352	7.31	0.0068668	1	9.94	1.30	75.76
PLCO	11	0.230|0.160	41|32|1|318|117|13	74|448	0.56	0.4542001	1	2.16	0.27	17.07
WHI	4	0.186|0.157	200|80|15|1244|446|51	295|1741	4.21	0.0402273	1	0.54	0.30	0.98
STAGE3	18	0.143|0.159	386|130|10|1121|424|40	526|1585	0.48	0.4901404	1	1.28	0.63	2.62
NHS2	20	0.161|0.151	61|24|2|246|82|10	87|338	0.08	0.7798113	1	1.25	0.27	5.84
PBCS2	10	0.136|0.158	254|81|6|496|184|18	341|698	0.60	0.4390151	1	1.44	0.57	3.69
WHS	23	0.148|0.166	71|25|2|379|158|12	98|549	0.01	0.9407108	1	1.06	0.22	5.07
PBCS 1+2	1	0.141|0.157	388|135|7|755|260|35	530|1050	5.50	0.0189729	1	2.59	1.14	5.88

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	11	0.370|0.367	513|560|186|2015|2294|686	1259|4995	1.33	0.2486866	1	0.90	0.75	1.08
NHS	9	0.369|0.362	77|68|31|333|343|115	176|791	1.01	0.3138412	1	0.80	0.51	1.24
STAGE1-2	7	0.376|0.362	227|246|88|1268|1397|418	561|3083	1.45	0.2292476	1	0.86	0.67	1.10
STAGE2	12	0.379|0.362	150|178|57|935|1054|303	385|2292	0.59	0.4435493	1	0.89	0.65	1.21
PLCO	21	0.396|0.372	26|35|11|181|186|69	72|436	0.00	0.9757015	1	1.01	0.50	2.05
WHI	8	0.387|0.362	111|131|46|680|800|212	288|1692	2.33	0.1269598	1	0.76	0.54	1.08
STAGE3	6	0.382|0.374	203|238|80|618|750|218	521|1586	1.82	0.1778198	1	0.82	0.62	1.09
NHS2	5	0.419|0.404	32|36|18|122|166|56	86|344	1.41	0.2344327	1	0.70	0.38	1.27
PBCS2	17	0.362|0.360	134|163|41|283|324|88	338|695	0.06	0.8127539	1	1.05	0.70	1.56
WHS	2	0.418|0.373	37|39|21|213|260|74	97|547	3.69	0.0547616	1	0.58	0.33	1.02
PBCS 1+2	10	0.347|0.366	217|239|59|412|471|138	515|1021	1.18	0.2765983	1	1.20	0.86	1.67

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	12	0.360|0.367	533|588|171|2093|2255|738	1292|5086	1.31	0.2521908	1	1.11	0.93	1.34
NHS	19	0.374|0.374	73|83|27|329|353|125	183|807	0.02	0.8842024	1	1.03	0.66	1.63
STAGE1-2	9	0.362|0.368	311|356|100|1447|1549|517	767|3513	1.15	0.2837134	1	1.14	0.90	1.44
STAGE2	6	0.359|0.366	238|273|73|1118|1196|392	584|2706	1.31	0.2530927	1	1.17	0.89	1.55

PBCS1	11	0.381|0.334	74|86|29|160|150|43	189|353	1.05	0.3059608	1	0.76	0.46	1.28
PLCO	20	0.358|0.354	30|35|9|188|200|58	74|446	0.01	0.9030179	1	1.05	0.49	2.26
WHI	3	0.342|0.378	124|140|31|694|776|270	295|1740	4.90	0.0267831	1	1.56	1.05	2.32
STAGE3	20	0.356|0.365	222|232|71|646|707|221	525|1574	0.25	0.6189095	1	1.08	0.80	1.45
NHS2	19	0.341|0.373	41|30|14|133|153|48	85|334	0.09	0.7588142	1	0.90	0.47	1.74
PBCS2	21	0.366|0.382	141|153|49|269|335|102	343|706	0.01	0.9247759	1	1.02	0.70	1.48
WHS	8	0.335|0.338	40|49|8|244|219|71	97|534	1.56	0.2109485	1	1.63	0.75	3.54
PBCS 1+2	14	0.371|0.366	215|239|78|429|484|145	532|1058	0.29	0.5892427	1	0.92	0.68	1.24

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	13	0.108|0.109	1029|245|17|4054|1012|52	1291|5118	1.29	0.2562103	1	0.72	0.41	1.27
NHS	4	0.117|0.108	145|33|5|642|155|10	183|807	2.29	0.1300948	1	0.44	0.15	1.31
STAGE1-2	16	0.108|0.110	612|144|11|2781|693|41	767|3515	0.56	0.4523532	1	0.77	0.39	1.53
STAGE2	20	0.105|0.111	467|111|6|2139|538|31	584|2708	0.02	0.8944562	1	1.06	0.43	2.61
PBCS1	16	0.101|0.123	152|36|1|270|79|4	189|353	0.44	0.5057061	1	2.08	0.23	19.00
PLCO	22	0.122|0.106	56|18|0|357|87|4	74|448						
WHI	21	0.107|0.110	236|55|4|1378|341|21	295|1740	0.04	0.8478427	1	0.90	0.30	2.66
STAGE3	10	0.108|0.106	417|101|6|1275|319|11	524|1605	0.78	0.3769442	1	0.63	0.23	1.76
NHS2	3	0.137|0.099	65|15|4|280|56|6	84|342	2.57	0.1087346	1	0.35	0.09	1.32
PBCS2	19	0.105|0.107	273|68|2|565|143|5	343|713	0.04	0.8496769	1	1.17	0.22	6.14
WHS	24	0.093|0.109	79|18|0|430|120|0	97|550	-		1	1.00	1.00	1.00
PBCS 1+2	15	0.103|0.113	425|104|3|833|222|9	532|1064	0.29	0.5925266	1	1.43	0.38	5.32

Locus Alleles Chr Location Neighborhood
rs4415084 C|T 5p12 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	14	0.422|0.431	434|623|232|1673|2433|970	1289|5076	1.19	0.2745673	1	1.09	0.93	1.29
NHS	6	0.448|0.437	57|87|38|240|421|139	182|800	1.49	0.2220701	1	0.78	0.52	1.17
STAGE1-2	19	0.422|0.429	264|358|144|1154|1698|657	766|3509	0.07	0.7930976	1	1.03	0.84	1.26
STAGE2	8	0.414|0.427	207|271|106|914|1277|518	584|2709	0.90	0.3439233	1	1.12	0.88	1.42
PBCS1	6	0.476|0.463	55|88|46|97|185|71	189|353	1.70	0.1928641	1	0.75	0.49	1.16
PLCO	2	0.338|0.407	28|42|4|163|205|80	74|448	7.32	0.0068164	1	3.85	1.36	10.93
WHI	14	0.402|0.429	111|131|53|588|813|340	295|1741	0.57	0.4502334	1	1.13	0.82	1.56
STAGE3	5	0.422|0.435	171|265|89|520|739|315	525|1574	1.90	0.1683267	1	1.20	0.92	1.57
NHS2	12	0.403|0.449	31|43|14|105|156|71	88|332	0.80	0.3709115	1	1.34	0.71	2.52
PBCS2	9	0.413|0.440	117|165|58|226|346|140	340|712	0.83	0.3611317	1	1.17	0.83	1.65
WHS	18	0.469|0.420	23|57|17|189|237|104	97|530	0.24	0.6239776	1	1.16	0.65	2.07
PBCS 1+2	23	0.435|0.447	171|253|103|322|527|209	527|1058	0.00	0.9646323	1	1.01	0.77	1.31

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	15	0.264|0.282	378|275|47|978|787|146	700|1911	0.83	0.3625222	1	1.17	0.83	1.67
STAGE3	9	0.247|0.278	293|197|30|817|646|116	520|1579	1.23	0.267151	1	1.27	0.83	1.94
NHS2	17	0.268|0.285	46|28|8|173|133|29	82|335	0.16	0.6909255	1	0.84	0.36	1.95
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	2.81	0.0933917	1	1.66	0.91	3.01
WHS	22	0.273|0.260	51|39|7|294|205|37	97|536	0.02	0.8863887	1	0.94	0.40	2.22
PBCS 1+2	8	0.261|0.293	281|208|32|511|449|80	521|1040	1.55	0.2138418	1	1.31	0.85	2.02

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	16	0.437|0.434	399|650|238|1648|2482|973	1287|5103	0.43	0.5137711	1	1.06	0.90	1.24
NHS	10	0.432|0.436	55|98|30|261|388|158	183|807	0.86	0.3543187	1	1.23	0.80	1.89
STAGE1-2	5	0.428|0.429	239|399|129|1164|1687|665	767|3516	2.16	0.1416459	1	1.17	0.95	1.45
STAGE2	5	0.427|0.427	184|301|99|903|1299|507	584|2709	1.38	0.2405603	1	1.16	0.91	1.47
PBCS1	12	0.439|0.457	57|98|34|104|174|74	189|352	1.01	0.315727	1	1.26	0.80	2.00
PLCO	6	0.453|0.391	22|37|15|167|212|69	74|448	0.93	0.3345432	1	0.73	0.38	1.39
WHI	9	0.408|0.428	99|151|45|579|835|328	295|1742	2.16	0.1419654	1	1.29	0.92	1.81
STAGE3	15	0.450|0.445	161|251|109|484|795|309	521|1588	0.59	0.440507	1	0.91	0.70	1.16
NHS2	8	0.506|0.432	19|46|20|106|166|61	85|333	1.01	0.3137457	1	0.74	0.42	1.33
PBCS2	15	0.432|0.451	115|156|69|211|357|141	340|709	0.07	0.7856677	1	0.96	0.69	1.32
WHS	21	0.464|0.445	27|49|20|167|272|107	96|546	0.02	0.8764274	1	0.96	0.55	1.66
PBCS 1+2	18	0.436|0.452	171|254|103|315|531|214	528|1060	0.12	0.7282179	1	1.05	0.80	1.37

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	17	0.404|0.417	446|647|199|1696|2557|852	1292|5105	0.42	0.5188407	1	1.06	0.89	1.26
NHS	16	0.434|0.429	54|99|30|253|415|139	183|807	0.08	0.7716755	1	1.07	0.69	1.65
STAGE1-2	12	0.403|0.424	264|388|115|1133|1787|597	767|3517	0.90	0.3436899	1	1.11	0.89	1.39
STAGE2	9	0.393|0.422	210|289|85|880|1372|458	584|2710	0.88	0.3478707	1	1.13	0.87	1.46
PBCS1	17	0.368|0.368	74|91|24|141|164|48	189|353	0.05	0.8239935	1	1.06	0.62	1.81
PLCO	10	0.426|0.393	25|35|14|162|220|66	74|448	0.70	0.4014179	1	0.76	0.39	1.45
WHI	6	0.403|0.444	100|152|43|517|903|322	295|1742	2.47	0.1160388	1	1.32	0.93	1.87
STAGE3	24	0.407|0.403	182|260|84|563|771|255	526|1589	0.01	0.9187782	1	0.99	0.75	1.30
NHS2	10	0.482|0.425	22|43|19|115|159|64	84|338	0.91	0.3393355	1	0.75	0.42	1.35
PBCS2	18	0.397|0.386	122|171|51|266|333|105	344|704	0.05	0.8305268	1	1.04	0.72	1.50
WHS	19	0.378|0.412	38|46|14|182|279|86	98|547	0.16	0.6861719	1	1.14	0.61	2.13
PBCS 1+2	21	0.386|0.380	196|261|75|407|496|153	532|1056	0.03	0.8608301	1	1.03	0.76	1.39

Locus Alleles Chr Location Neighborhood
rs1334615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	18	0.250|0.243	722|489|77|2906|1906|288	1288|5100	0.34	0.5573909	1	0.92	0.71	1.21
NHS	14	0.260|0.262	101|69|13|433|325|49	183|807	0.38	0.5361948	1	0.82	0.43	1.55
STAGE1-2	22	0.256|0.248	420|302|45|1984|1323|210	767|3517	0.00	0.9619116	1	0.99	0.71	1.39
STAGE2	18	0.254|0.244	319|233|32|1551|998|161	584|2710	0.09	0.7579666	1	1.06	0.71	1.59
PBCS1	4	0.235|0.231	106|77|6|213|117|23	189|353	3.33	0.0678324	1	2.32	0.92	5.83
PLCO	13	0.264|0.253	38|33|3|247|175|26	74|448	0.27	0.6038905	1	1.39	0.40	4.81
WHI	13	0.264|0.247	160|114|21|985|654|103	295|1742	0.69	0.4051869	1	0.81	0.50	1.32
STAGE3	12	0.241|0.234	302|188|32|922|585|79	522|1586	0.70	0.402023	1	0.83	0.54	1.28
NHS2	6	0.229|0.241	52|24|7|190|124|18	83|332	1.27	0.2593375	1	0.59	0.24	1.48
PBCS2	12	0.230|0.225	202|124|17|427|240|39	343|706	0.26	0.6104978	1	1.17	0.64	2.11
WHS	4	0.292|0.242	48|40|8|305|221|22	96|548	2.52	0.1121807	1	0.50	0.21	1.19
PBCS 1+2	3	0.232|0.226	308|200|23|640|355|61	531|1056	1.89	0.1688637	1	1.41	0.86	2.32

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	19	0.228|0.215	760|466|61|3130|1743|227	1287|5100	0.22	0.6410517	1	0.93	0.69	1.25
NHS	7	0.239|0.209	105|67|10|499|278|30	182|807	1.35	0.2451365	1	0.65	0.31	1.36
STAGE1-2	17	0.224|0.211	459|271|36|2185|1182|150	766|3517	0.49	0.4817834	1	0.87	0.60	1.28
STAGE2	19	0.219|0.211	354|204|26|1686|904|120	584|2710	0.04	0.8345901	1	0.95	0.61	1.49
PBCS1	2	0.228|0.203	115|62|12|219|125|9	189|353	5.14	0.0234322	1	0.37	0.15	0.90

PLCO	14	0.189|0.225	48|24|2|262|170|16	74|448	0.19	0.6605989	1	1.40	0.31	6.34
WHI	15	0.224|0.208	174|110|11|1100|559|83	295|1742	0.54	0.4620971	1	1.27	0.67	2.43
STAGE3	23	0.235|0.226	302|195|25|946|562|77	522|1585	0.03	0.865742	1	1.04	0.65	1.68
NHS2	11	0.212|0.233	52|30|3|198|115|20	85|333	0.85	0.355933	1	1.78	0.51	6.18
PBCS2	23	0.234|0.224	198|125|17|422|248|34	340|704	0.00	0.9957715	1	1.00	0.55	1.83
WHS	16	0.258|0.224	52|40|5|326|199|23	97|548	0.30	0.5859298	1	0.75	0.27	2.08
PBCS 1+2	7	0.232|0.217	312|187|29|640|372|43	528|1055	1.63	0.2014993	1	0.73	0.45	1.19

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.225|0.209	779|439|70|3197|1647|236	1288|5080	0.19	0.6610591	1	0.94	0.71	1.25
NHS	8	0.191|0.189	122|52|9|529|251|27	183|807	1.24	0.2653197	1	0.65	0.30	1.40
STAGE1-2	20	0.202|0.200	492|240|35|2262|1101|152	767|3515	0.01	0.9247227	1	1.02	0.69	1.50
STAGE2	14	0.205|0.203	370|188|26|1733|850|125	584|2708	0.40	0.5256888	1	1.15	0.74	1.80
PBCS1	5	0.222|0.249	114|66|9|204|121|27	189|352	1.77	0.1830836	1	1.69	0.77	3.71
PLCO	19	0.203|0.195	47|24|3|288|145|15	74|448	0.06	0.8055866	1	0.85	0.24	3.06
WHI	17	0.198|0.194	192|89|14|1138|530|73	295|1741	0.20	0.6526457	1	0.87	0.49	1.57
STAGE3	13	0.258|0.228	287|199|35|936|547|83	521|1566	0.70	0.4024027	1	0.84	0.55	1.27
NHS2	21	0.204|0.216	51|27|3|202|112|15	81|329	0.07	0.7878122	1	1.19	0.33	4.27
PBCS2	13	0.278|0.245	177|141|25|402|254|45	343|701	0.16	0.6873546	1	0.90	0.54	1.50
WHS	9	0.232|0.212	59|31|7|332|181|23	97|536	1.14	0.2865134	1	0.61	0.25	1.51
PBCS 1+2	16	0.258|0.247	291|207|34|605|374|73	532|1052	0.22	0.6353461	1	1.11	0.73	1.69

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.267|0.273	597|424|83|2281|1695|328	1104|4304	0.03	0.8516319	1	1.02	0.79	1.33
STAGE1-2	21	0.276|0.275	308|228|47|1429|1071|209	583|2709	0.01	0.9305686	1	0.99	0.70	1.38
STAGE2	22	0.276|0.275	308|228|47|1429|1071|209	583|2709	0.01	0.9315578	1	0.99	0.70	1.38
PBCS1	7	0.250|0.265	106|70|12|198|123|32	188|353	1.57	0.2100921	1	1.56	0.77	3.15
PLCO	4	0.257|0.271	44|22|8|235|182|30	74|447	2.26	0.1327018	1	0.52	0.22	1.23
WHI	20	0.295|0.280	145|126|24|901|708|133	295|1742	0.05	0.8308547	1	0.95	0.60	1.50
STAGE3	22	0.258|0.270	290|196|37|852|624|119	523|1595	0.07	0.7945914	1	1.05	0.71	1.56
NHS2	14	0.286|0.281	45|30|9|176|134|28	84|338	0.76	0.3822929	1	0.70	0.31	1.56
PBCS2	20	0.244|0.265	198|121|23|381|280|48	342|709	0.03	0.8544515	1	1.05	0.62	1.77
WHS	14	0.284|0.270	47|45|5|295|210|43	97|548	0.63	0.4284564	1	1.47	0.56	3.86
PBCS 1+2	11	0.245|0.265	303|191|34|579|403|80	528|1062	1.05	0.3063367	1	1.25	0.82	1.90

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.387|0.385	415|528|164|1621|2044|634	1107|4299	0.01	0.9165531	1	1.01	0.83	1.22
STAGE1-2	11	0.363|0.383	236|272|76|1028|1286|396	584|2710	0.92	0.3370493	1	1.14	0.87	1.49
STAGE2	7	0.363|0.383	236|272|76|1028|1286|396	584|2710	0.91	0.3403086	1	1.14	0.87	1.49
PBCS1	10	0.384|0.375	67|99|23|140|161|52	189|353	1.09	0.2973514	1	1.33	0.78	2.26
PLCO	3	0.338|0.394	30|38|6|170|203|75	74|448	3.44	0.0634943	1	2.26	0.94	5.47
WHI	22	0.351|0.378	130|123|42|672|822|248	295|1742	0.03	0.8596867	1	0.97	0.68	1.38
STAGE3	11	0.413|0.388	179|257|88|593|760|238	524|1591	0.72	0.3965328	1	0.89	0.68	1.17
NHS2	1	0.436|0.370	31|35|20|128|165|41	86|334	7.34	0.0067583	1	0.44	0.24	0.81
PBCS2	8	0.411|0.398	111|181|50|263|330|118	342|711	0.85	0.3569487	1	1.19	0.83	1.70
WHS	12	0.401|0.387	37|41|18|202|265|79	96|546	0.77	0.3797074	1	0.77	0.43	1.38
PBCS 1+2	5	0.401|0.390	178|279|73|403|489|170	530|1062	1.72	0.1896864	1	1.22	0.91	1.65

Locus	Alleles	Chr	Location	Neighborhood								
rs17570439	T|C	1p34.2		40096797 TRIT1								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u		
STAGE1-3	23	0.231|0.224	759|465|65|3076|1762|263	1289|5101	0.00	0.9560722	1	1.01	0.76	1.34		
NHS	15	0.238|0.245	107|65|11|457|304|46	183|807	0.09	0.76852	1	0.90	0.45	1.79		
STAGE1-2	18	0.233|0.229	446|283|37|2104|1217|196	766|3517	0.47	0.4930288	1	1.13	0.78	1.64		
STAGE2	10	0.232|0.224	339|218|26|1647|913|150	583|2710	0.87	0.3523032	1	1.23	0.80	1.90		
PBCS1	3	0.214|0.215	113|71|5|223|108|22	189|353	4.05	0.0442701	1	2.69	0.99	7.29		
PLCO	7	0.243|0.238	40|32|2|259|165|24	74|448	0.88	0.3484288	1	2.01	0.46	8.85		
WHI	18	0.238|0.225	171|106|17|1053|594|95	294|1742	0.10	0.7461625	1	0.92	0.54	1.56		
STAGE3	14	0.228|0.214	313|182|28|972|545|67	523|1584	0.63	0.4271883	1	0.83	0.52	1.32		
NHS2	13	0.235|0.229	51|28|6|194|119|16	85|329	0.76	0.3818617	1	0.65	0.24	1.72		
PBCS2	16	0.215|0.210	211|115|16|448|228|35	342|711	0.06	0.7998854	1	1.08	0.58	2.01		
WHS	7	0.266|0.211	51|39|6|330|198|16	96|544	2.02	0.1553369	1	0.49	0.18	1.33		
PBCS 1+2	4	0.215|0.211	324|186|21|671|336|57	531|1064	1.78	0.1817695	1	1.42	0.85	2.38		

Locus	Alleles	Chr	Location	Neighborhood								
rs2303659	G|A	11q24.3		129326474 PRDM10								
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u		
STAGE1-3	24	0.024|0.026	1229|59|2|4833|251|9	1290|5093	0.00	0.9734052	1	0.97	0.20	4.64		
NHS	22	0.022|0.026	175|8|0|765|42|0	183|807	-		1 1	1.00	1.00	1.00		
STAGE1-2	23	0.022|0.025	733|34|0|3341|174|2	767|3517								
STAGE2	23	0.022|0.025	558|26|0|2576|132|2	584|2710								
PBCS1	22	0.021|0.024	181|8|0|336|17|0	189|353	-		1 1	1.00	1.00	1.00		
PLCO	24	0.020|0.026	71|3|0|425|23|0	74|448	-		1 1	1.00	1.00	1.00		
WHI	24	0.025|0.025	280|15|0|1655|86|1	295|1742								
STAGE3	21	0.028|0.029	496|25|2|1493|77|7	523|1577	0.07	0.7873284	1	0.80	0.16	4.03		
NHS2	24	0.000|0.030	84|0|0|321|14|3	84|338								
PBCS2	24	0.033|0.028	322|21|1|669|40|0	344|709								
WHS	17	0.032|0.029	90|4|1|503|23|4	95|530	0.29	0.5885143	1	0.54	0.06	5.09		
PBCS 1+2	24	0.029|0.027	503|29|1|1004|57|0	533|1061								

unadj_geno

Locus	Alleles	Chr	Location	Neighborhood										
rs11249433	T|C	1p11.2		120982136 LOC647121										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI_l	het OR 95% CI_u	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	1	0.399|0.439	478|610|215|1655|2556|1017	1303|5228	13.82	0.0009971	2	1.21	1.06	1.38	1.37	1.14	1.63	
NHS	5	0.412|0.448	65|84|33|238|411|155	182|804	2.64	0.2677407	2	1.34	0.93	1.92	1.28	0.81	2.04	
STAGE1-2	2	0.407|0.441	271|383|126|1124|1831|695	780|3650	6.22	0.0446344	2	1.15	0.97	1.37	1.33	1.06	1.68	
STAGE2	2	0.406|0.439	206|299|93|886|1420|540	598|2846	4.86	0.0878471	2	1.10	0.91	1.34	1.35	1.03	1.76	
CP5II	1	0.524|0.405	8|24|10|108|159|48	42|315	4.65	0.0980062	2	0.49	0.21	1.13	0.36	0.13	0.96	
PBCS1	16	0.392|0.407	67|96|26|124|171|58	189|353	0.71	0.7012692	2	0.96	0.65	1.42	1.21	0.70	2.09	
PLCO	16	0.411|0.427	26|34|13|140|232|75	73|447	0.75	0.6872213	2	1.27	0.73	2.20	1.07	0.52	2.21	
WHI	1	0.396|0.455	105|145|44|514|858|359	294|1731	7.19	0.0274276	2	1.21	0.92	1.59	1.67	1.14	2.43	
STAGE3	2	0.387|0.434	207|227|89|531|725|322	523|1578	6.80	0.0334338	2	1.25	1.00	1.55	1.41	1.06	1.87	
NHS2	22	0.450|0.440	29|41|20|114|152|73	90|339	0.07	0.9676014	2	0.94	0.55	1.61	0.93	0.49	1.76	
PBCS2	8	0.372|0.410	137|149|51|246|324|121	337|691	2.67	0.2632401	2	1.21	0.91	1.61	1.32	0.90	1.95	
WHS	3	0.380|0.461	41|37|18|171|249|128	96|548	4.92	0.0852699	2	1.61	0.99	2.62	1.71	0.94	3.11	
PBCS 1+2	6	0.379|0.409	204|245|77|370|495|179	526|1044	2.47	0.2910101	2	1.11	0.89	1.40	1.28	0.93	1.76	

Locus	Alleles	Chr	Location	Neighborhood										
rs12608723	A|G	19q13.11		38508973										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI_l	het OR 95% CI_u	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	

STAGE1-3	2	0.131|0.121	1001|279|33|4075|1120|78	1313|5273	6.82	0.0330695	2	0.99	0.85	1.14	0.58	0.38	0.88
NHS	1	0.156|0.121	127|55|1|624|169|13	183|806	7.90	0.0192665	2	0.63	0.44	0.90	2.65	0.34	20.41
STAGE1-2	1	0.143|0.121	581|180|22|2831|783|52	783|3666	9.07	0.0107358	2	0.89	0.74	1.07	0.49	0.29	0.80
STAGE2	1	0.139|0.121	454|125|21|2207|614|39	600|2860	13.29	0.0012991	2	1.01	0.81	1.26	0.38	0.22	0.66
CPSII	7	0.131|0.114	33|7|2|250|60|6	42|316	1.47	0.4799689	2	1.13	0.48	2.68	0.40	0.08	2.04
PBCS1	8	0.135|0.110	142|43|4|278|72|3	189|353	2.06	0.3572063	2	0.86	0.56	1.31	0.38	0.08	1.74
PLCO	1	0.162|0.116	57|10|7|348|96|4	74|448	24.08	5.90E-06	2	1.57	0.77	3.19	0.09	0.03	0.33
WHI	12	0.137|0.126	222|65|8|1331|386|26	295|1743	2.29	0.3176364	2	0.99	0.73	1.34	0.54	0.24	1.21
STAGE3	12	0.115|0.122	420|100|11|1244|340|26	531|1610	1.67	0.4341526	2	1.15	0.90	1.47	0.80	0.39	1.63
NHS2	4	0.132|0.117	71|16|4|272|72|5	91|349	3.43	0.1796706	2	1.17	0.64	2.14	0.33	0.09	1.25
PBCS2	14	0.102|0.119	276|62|4|554|145|12	342|711	1.24	0.5385503	2	1.17	0.84	1.62	1.49	0.48	4.68
WHS	17	0.143|0.128	73|22|3|418|123|9	98|550	0.94	0.6258721	2	0.98	0.58	1.64	0.52	0.14	1.98
PBCS 1+2	22	0.113|0.115	418|104|8|832|214|15	530|1061	0.08	0.9586516	2	1.03	0.80	1.34	0.94	0.40	2.24

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	3	0.357|0.376	534|613|160|2089|2392|784	1307|5265	5.97	0.0504192	2	1.00	0.88	1.14	1.25	1.03	1.52
NHS	13	0.388|0.375	67|90|26|325|359|123	183|807	1.34	0.5128149	2	0.82	0.58	1.17	0.98	0.59	1.60
STAGE1-2	12	0.372|0.376	308|368|107|1462|1649|555	783|3666	1.57	0.4563041	2	0.94	0.80	1.12	1.09	0.86	1.39
STAGE2	13	0.367|0.377	241|278|81|1137|1290|432	600|2859	1.05	0.5922942	2	0.98	0.81	1.19	1.13	0.86	1.49
CPSII	24	0.274|0.351	19|23|0|137|136|43	42|316									
PBCS1	17	0.354|0.364	83|78|28|147|154|51	189|352	0.32	0.8523345	2	1.11	0.76	1.63	1.03	0.60	1.75
PLCO	19	0.378|0.376	29|34|11|170|219|59	74|448	0.27	0.8715613	2	1.10	0.64	1.88	0.92	0.43	1.95
WHI	14	0.385|0.384	110|143|42|683|781|279	295|1743	1.48	0.4763555	2	0.88	0.67	1.15	1.07	0.73	1.57
STAGE3	3	0.335|0.375	226|245|53|628|743|229	524|1600	6.73	0.0346344	2	1.09	0.88	1.35	1.55	1.11	2.17
NHS2	16	0.349|0.366	36|40|10|147|152|53	86|352	0.74	0.690758	2	0.93	0.56	1.54	1.30	0.60	2.80
PBCS2	7	0.335|0.365	146|160|34|286|322|96	340|704	2.82	0.2443289	2	1.03	0.78	1.35	1.44	0.93	2.24
WHS	6	0.321|0.394	44|45|9|195|269|80	98|544	3.87	0.1447022	2	1.35	0.86	2.13	2.01	0.94	4.30
PBCS 1+2	9	0.342|0.365	229|238|62|432|476|147	529|1055	1.77	0.4122232	2	1.06	0.85	1.33	1.26	0.90	1.76

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	4	0.221|0.243	800|446|67|3042|1901|333	1313|5276	5.72	0.0573559	2	1.12	0.99	1.28	1.31	0.99	1.72
NHS	10	0.246|0.253	108|60|15|451|303|53	183|807	1.76	0.4154137	2	1.21	0.85	1.71	0.85	0.46	1.56
STAGE1-2	5	0.227|0.249	473|265|45|2095|1316|253	783|3664	3.24	0.1982456	2	1.12	0.95	1.32	1.27	0.91	1.77
STAGE2	4	0.221|0.247	365|205|30|1644|1013|200	600|2857	4.14	0.1261645	2	1.10	0.91	1.32	1.48	0.99	2.21
CPSII	17	0.226|0.241	26|13|3|186|108|22	42|316	0.17	0.9167629	2	1.16	0.57	2.35	1.03	0.29	3.67
PBCS1	20	0.272|0.272	99|77|13|186|139|26	189|351	0.10	0.9530477	2	0.96	0.66	1.39	1.06	0.52	2.16
PLCO	5	0.169|0.232	52|19|3|261|166|21	74|448	3.90	0.1420342	2	1.74	0.99	3.05	1.39	0.40	4.85
WHI	2	0.200|0.247	188|96|11|1011|600|131	295|1742	6.86	0.0324322	2	1.16	0.89	1.52	2.21	1.17	4.18
STAGE3	13	0.212|0.231	327|181|22|948|587|79	530|1614	1.61	0.4481547	2	1.12	0.91	1.38	1.24	0.76	2.02
NHS2	15	0.261|0.232	49|35|6|205|131|16	90|352	0.88	0.6437466	2	0.89	0.55	1.45	0.64	0.24	1.71
PBCS2	3	0.195|0.233	219|111|11|417|254|38	341|709	4.07	0.1307988	2	1.20	0.91	1.58	1.81	0.91	3.62
WHS	23	0.227|0.228	59|35|5|326|202|25	99|553	0.09	0.9564842	2	1.04	0.66	1.64	0.90	0.33	2.46
PBCS 1+2	7	0.223|0.246	318|188|24|602|391|65	530|1058	2.44	0.2947345	2	1.10	0.88	1.37	1.43	0.88	2.33

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.323|0.335	592|587|129|2368|2287|625	1308|5280	4.20	0.1225441	2	0.97	0.86	1.11	1.21	0.98	1.49
NHS	3	0.308|0.328	82|88|12|373|339|95	182|807	5.11	0.0777137	2	0.85	0.61	1.18	1.74	0.91	3.32
STAGE1-2	3	0.335|0.337	336|366|78|1631|1595|436	780|3662	3.98	0.1366226	2	0.90	0.76	1.06	1.15	0.88	1.51

STAGE2	12	0.343|0.339	254|278|66|1258|1256|341	598|2855	1.32	0.5160774	2	0.91	0.76	1.10	1.04	0.78	1.40
CPSII	13	0.381|0.340	16|20|6|139|138|38	42|315	0.58	0.748061	2	0.79	0.40	1.60	0.73	0.27	1.99
PBCS1	14	0.321|0.326	84|86|17|161|150|39	187|350	0.80	0.6718816	2	0.91	0.63	1.32	1.20	0.64	2.24
PLCO	18	0.365|0.334	28|38|8|190|215|42	74|447	0.60	0.7403105	2	0.83	0.49	1.41	0.77	0.33	1.82
WHI	19	0.346|0.343	126|134|35|768|753|222	295|1743	0.54	0.7620993	2	0.92	0.71	1.20	1.04	0.70	1.56
STAGE3	9	0.308|0.331	255|222|52|734|693|189	529|1616	1.98	0.3710204	2	1.08	0.88	1.33	1.26	0.90	1.77
NHS2	2	0.264|0.331	52|30|9|162|155|41	91|358	4.19	0.1230387	2	1.66	1.01	2.74	1.46	0.67	3.21
PBCS2	22	0.333|0.330	154|148|40|326|301|84	342|711	0.08	0.9584781	2	0.96	0.73	1.26	0.99	0.65	1.51
WHS	2	0.260|0.334	49|44|3|246|237|64	96|547	6.54	0.0380763	2	1.07	0.69	1.67	4.25	1.28	14.08
PBCS 1+2	19	0.327|0.327	239|233|56|490|450|123	528|1063	0.61	0.7370822	2	0.94	0.76	1.18	1.07	0.75	1.52

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.164|0.176	915|363|34|3610|1460|197	1312|5267	4.17	0.1243521	2	1.02	0.89	1.17	1.47	1.01	2.13
NHS	20	0.172|0.179	125|53|5|542|240|24	183|806	0.09	0.9565086	2	1.04	0.73	1.49	1.11	0.41	2.96
STAGE1-2	20	0.173|0.176	538|219|26|2510|1021|135	783|3666	0.24	0.8858668	2	1.00	0.84	1.19	1.11	0.72	1.71
STAGE2	21	0.173|0.175	413|166|21|1968|781|111	600|2860	0.21	0.8993289	2	0.99	0.81	1.20	1.11	0.69	1.79
CPSII	16	0.190|0.171	28|12|2|221|82|13	42|316	0.19	0.9088189	2	0.87	0.42	1.78	0.82	0.18	3.84
PBCS1	13	0.251|0.231	107|69|13|208|127|18	189|353	0.80	0.66904	2	0.95	0.65	1.38	0.71	0.34	1.51
PLCO	11	0.122|0.156	57|16|1|322|112|14	74|448	1.22	0.5425203	2	1.24	0.68	2.25	2.48	0.32	19.22
WHI	4	0.134|0.170	221|69|5|1217|460|66	295|1743	4.97	0.0832594	2	1.21	0.91	1.62	2.40	0.95	6.02
STAGE3	1	0.151|0.176	377|144|8|1100|440|62	529|1602	7.13	0.0283257	2	1.05	0.84	1.31	2.66	1.26	5.60
NHS2	23	0.148|0.162	62|26|0|249|82|15	88|346									
PBCS2	5	0.156|0.188	243|93|7|467|211|27	343|705	3.63	0.1629407	2	1.18	0.88	1.58	2.01	0.86	4.68
WHS	12	0.138|0.170	72|25|1|384|147|20	98|551	1.96	0.3748168	2	1.10	0.67	1.81	3.75	0.50	28.38
PBCS 1+2	17	0.190|0.202	350|162|20|675|337|45	532|1057	0.65	0.7226425	2	1.08	0.86	1.35	1.17	0.68	2.01

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	7	0.359|0.367	521|636|152|2088|2463|694	1309|5245	2.72	0.2571611	2	0.97	0.85	1.10	1.14	0.93	1.39
NHS	14	0.358|0.366	72|91|20|323|377|107	183|807	0.93	0.6266846	2	0.92	0.66	1.30	1.19	0.69	2.05
STAGE1-2	16	0.355|0.363	314|380|87|1453|1759|451	781|3663	0.83	0.6596539	2	1.00	0.85	1.18	1.12	0.86	1.45
STAGE2	17	0.354|0.362	242|289|67|1130|1382|344	598|2856	0.40	0.820564	2	1.02	0.85	1.24	1.10	0.82	1.48
CPSII	4	0.402|0.339	12|25|4|132|150|31	41|313	2.73	0.2548601	2	0.55	0.26	1.13	0.70	0.21	2.33
PBCS1	5	0.362|0.375	78|84|26|125|190|37	188|352	4.41	0.1103076	2	1.41	0.96	2.07	0.89	0.50	1.58
PLCO	9	0.345|0.360	29|39|6|180|213|55	74|448	1.31	0.5194465	2	0.88	0.52	1.48	1.48	0.58	3.74
WHI	15	0.344|0.365	123|141|31|693|829|221	295|1743	1.20	0.548645	2	1.04	0.80	1.36	1.27	0.83	1.93
STAGE3	6	0.365|0.376	207|255|65|635|705|243	527|1583	3.82	0.147867	2	0.90	0.73	1.11	1.22	0.89	1.67
NHS2	9	0.348|0.402	37|42|10|129|162|60	89|351	1.99	0.3705927	2	1.11	0.67	1.82	1.72	0.80	3.69
PBCS2	10	0.382|0.381	126|171|45|275|321|108	342|704	1.99	0.3688323	2	0.86	0.65	1.14	1.10	0.73	1.65
WHS	16	0.323|0.352	44|42|10|231|222|75	96|528	0.99	0.6091443	2	1.01	0.63	1.60	1.43	0.69	2.98
PBCS 1+2	23	0.375|0.379	204|256|71|400|510|145	531|1055	0.06	0.9700365	2	1.02	0.81	1.27	1.04	0.75	1.45

Locus Alleles Chr Location Neighborhood
rs12622050 G|A 2q11.2 100945886 NPAS2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.223|0.208	795|444|70|3307|1695|246	1309|5248	2.66	0.2641403	2	0.92	0.81	1.05	0.84	0.64	1.11
NHS	12	0.191|0.189	122|52|9|529|251|27	183|807	1.39	0.4979787	2	1.11	0.78	1.59	0.69	0.32	1.51
STAGE1-2	22	0.200|0.200	504|243|35|2361|1141|162	782|3664	0.01	0.9973911	2	1.00	0.85	1.19	0.99	0.68	1.44
STAGE2	20	0.203|0.203	382|191|26|1832|890|135	599|2857	0.25	0.8814952	2	0.97	0.80	1.18	1.08	0.70	1.67
CPSII	21	0.146|0.213	29|12|0|201|94|20	41|315									
PBCS1	10	0.222|0.249	114|66|9|204|121|27	189|352	1.69	0.4293973	2	1.02	0.70	1.49	1.68	0.76	3.69

PLCO	21	0.203|0.195	47|24|3|288|145|15	74|448	0.10	0.9523018	2	0.99	0.58	1.68	0.82	0.23	2.93
WHI	20	0.198|0.194	192|89|14|1139|530|73	295|1742	0.19	0.9089443	2	1.00	0.77	1.32	0.88	0.49	1.59
STAGE3	5	0.257|0.227	291|201|35|947|555|83	527|1585	3.86	0.145157	2	0.85	0.69	1.04	0.73	0.48	1.11
NHS2	21	0.206|0.215	53|29|3|210|117|15	85|342	0.13	0.9377118	2	1.02	0.61	1.69	1.26	0.35	4.52
PBCS2	6	0.278|0.245	177|141|25|402|254|45	343|701	3.08	0.2148892	2	0.79	0.60	1.04	0.79	0.47	1.33
WHS	14	0.227|0.212	61|31|7|335|184|23	99|542	1.60	0.4485628	2	1.08	0.68	1.73	0.60	0.25	1.46
PBCS 1+2	10	0.258|0.247	291|207|34|605|374|73	532|1052	1.74	0.4195856	2	0.87	0.70	1.08	1.03	0.67	1.59

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.234|0.249	773|464|75|2989|1934|347	1312|5270	2.64	0.2676472	2	1.08	0.95	1.23	1.20	0.92	1.55
NHS	4	0.219|0.247	110|66|7|470|276|61	183|807	3.27	0.1952732	2	0.98	0.70	1.37	2.04	0.91	4.58
STAGE1-2	9	0.226|0.245	474|264|45|2117|1303|246	783|3666	2.39	0.3029723	2	1.11	0.94	1.30	1.22	0.88	1.71
STAGE2	10	0.228|0.244	364|198|38|1647|1027|185	600|2859	2.01	0.366389	2	1.15	0.95	1.39	1.08	0.75	1.55
CPSII	9	0.274|0.222	23|15|4|197|98|21	42|316	1.05	0.5927303	2	0.76	0.38	1.53	0.61	0.19	1.94
PBCS1	21	0.228|0.229	115|62|12|212|119|21	189|352	0.07	0.9634992	2	1.04	0.71	1.53	0.95	0.45	2.00
PLCO	10	0.243|0.253	45|22|7|254|161|33	74|448	1.25	0.535525	2	1.30	0.75	2.24	0.84	0.35	2.00
WHI	9	0.219|0.249	181|99|15|984|649|110	295|1743	2.61	0.2715202	2	1.21	0.93	1.57	1.35	0.77	2.37
STAGE3	20	0.246|0.259	299|200|30|872|631|100	529|1603	0.78	0.6758018	2	1.08	0.88	1.33	1.14	0.74	1.75
NHS2	18	0.233|0.241	51|33|4|204|123|23	88|350	0.58	0.7485451	2	0.93	0.57	1.52	1.44	0.48	4.34
PBCS2	21	0.265|0.268	185|133|24|372|282|47	342|701	0.18	0.9130033	2	1.05	0.80	1.38	0.97	0.58	1.64
WHS	4	0.192|0.259	63|34|2|296|226|30	99|552	4.43	0.1090148	2	1.41	0.90	2.22	3.19	0.74	13.71
PBCS 1+2	21	0.251|0.256	300|195|36|584|401|69	531|1054	0.27	0.8744586	2	1.06	0.85	1.32	0.98	0.64	1.51

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.229|0.216	773|472|64|3232|1803|234	1309|5269	2.39	0.3025389	2	0.91	0.80	1.04	0.87	0.66	1.17
NHS	8	0.239|0.209	105|67|10|499|278|30	182|807	1.81	0.4035994	2	0.87	0.62	1.23	0.63	0.30	1.33
STAGE1-2	13	0.224|0.211	469|275|38|2274|1237|156	782|3667	1.37	0.5053423	2	0.93	0.79	1.09	0.85	0.59	1.22
STAGE2	16	0.220|0.212	364|208|28|1775|959|126	600|2860	0.42	0.8098376	2	0.95	0.78	1.14	0.92	0.60	1.41
CPSII	14	0.214|0.223	27|12|3|193|105|18	42|316	0.44	0.8023692	2	1.22	0.60	2.52	0.84	0.23	3.04
PBCS1	4	0.228|0.203	115|62|12|219|125|9	189|353	4.86	0.0881458	2	1.06	0.72	1.55	0.39	0.16	0.96
PLCO	12	0.189|0.225	48|24|2|262|170|16	74|448	1.09	0.5786154	2	1.30	0.77	2.20	1.47	0.33	6.58
WHI	8	0.224|0.208	174|110|11|1101|559|83	295|1743	3.38	0.1843701	2	0.80	0.62	1.04	1.19	0.62	2.28
STAGE3	21	0.236|0.225	305|197|26|959|567|78	528|1604	0.70	0.7033715	2	0.92	0.74	1.13	0.95	0.60	1.51
NHS2	12	0.208|0.234	55|31|3|205|120|21	89|346	1.01	0.6029615	2	1.04	0.63	1.70	1.88	0.54	6.53
PBCS2	18	0.234|0.224	198|125|17|422|248|34	340|704	0.28	0.8702588	2	0.93	0.71	1.22	0.94	0.51	1.72
WHS	11	0.268|0.221	52|41|6|332|199|23	99|554	2.16	0.3393334	2	0.76	0.49	1.19	0.60	0.23	1.54
PBCS 1+2	11	0.232|0.217	312|187|29|640|372|43	528|1055	1.70	0.4274835	2	0.97	0.78	1.21	0.72	0.44	1.18

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.262|0.282	383|276|47|991|791|148	706|1930	2.01	0.3667166	2	1.11	0.92	1.33	1.22	0.86	1.72
STAGE3	4	0.245|0.277	298|198|30|830|650|118	526|1598	4.17	0.1241572	2	1.18	0.96	1.45	1.41	0.93	2.15
NHS2	14	0.262|0.283	49|29|8|181|137|30	86|348	0.93	0.6274178	2	1.28	0.77	2.13	1.02	0.44	2.35
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	7.09	0.0288646	2	1.33	1.01	1.74	1.87	1.02	3.41
WHS	22	0.268|0.259	53|39|7|299|205|38	99|542	0.10	0.9534966	2	0.93	0.59	1.46	0.96	0.41	2.27
PBCS 1+2	3	0.261|0.293	281|208|32|511|449|80	521|1040	3.61	0.164468	2	1.19	0.95	1.48	1.37	0.89	2.12

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.405|0.418	452|660|202|1751|2638|885	1314|5274	1.72	0.4223459	2	1.03	0.90	1.18	1.13	0.94	1.36
NHS	17	0.434|0.429	54|99|30|253|415|139	183|807	0.43	0.8069602	2	0.89	0.62	1.29	0.99	0.60	1.62
STAGE1-2	7	0.402|0.425	270|396|117|1181|1857|629	783|3667	2.91	0.2337785	2	1.07	0.90	1.27	1.23	0.97	1.56
STAGE2	5	0.393|0.423	216|297|87|928|1442|490	600|2860	4.04	0.132788	2	1.13	0.93	1.37	1.31	1.00	1.72
CPSII	12	0.369|0.416	17|19|6|107|155|54	42|316	0.75	0.6862368	2	1.30	0.64	2.61	1.43	0.53	3.83
PBCS1	18	0.368|0.368	74|91|24|141|164|48	189|353	0.17	0.918989	2	0.95	0.65	1.38	1.05	0.60	1.85
PLCO	15	0.426|0.393	25|35|14|162|220|66	74|448	0.87	0.6475392	2	0.97	0.56	1.68	0.73	0.36	1.49
WHI	7	0.403|0.444	100|152|43|518|903|322	295|1743	3.60	0.165525	2	1.15	0.87	1.51	1.45	0.99	2.12
STAGE3	23	0.409|0.402	182|265|85|570|782|256	532|1608	0.29	0.8655615	2	0.94	0.76	1.17	0.96	0.71	1.29
NHS2	7	0.483|0.423	22|47|19|119|167|65	88|351	2.57	0.2760643	2	0.66	0.38	1.15	0.63	0.32	1.25
PBCS2	16	0.397|0.386	122|171|51|266|333|105	344|704	0.62	0.7350815	2	0.89	0.67	1.19	0.94	0.63	1.40
WHS	18	0.385|0.410	38|47|15|185|282|86	100|553	0.80	0.671202	2	1.23	0.77	1.96	1.18	0.61	2.26
PBCS 1+2	18	0.386|0.380	196|261|75|407|496|153	532|1056	0.63	0.7293983	2	0.92	0.73	1.15	0.98	0.71	1.36

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.209|0.219	828|417|65|3251|1707|300	1310|5258	1.49	0.4738534	2	1.04	0.91	1.19	1.18	0.89	1.55
NHS	2	0.180|0.222	121|58|4|502|251|54	183|807	5.55	0.0623801	2	1.04	0.74	1.48	3.25	1.16	9.16
STAGE1-2	19	0.210|0.216	494|249|40|2293|1165|209	783|3667	0.44	0.8044625	2	1.01	0.85	1.19	1.13	0.79	1.60
STAGE2	18	0.219|0.214	373|191|36|1791|914|155	600|2860	0.32	0.8514827	2	1.00	0.82	1.21	0.90	0.61	1.31
CPSII	6	0.131|0.199	32|9|1|205|96|15	42|316	2.19	0.3338227	2	1.67	0.76	3.63	2.34	0.30	18.34
PBCS1	19	0.254|0.245	106|70|13|203|127|23	189|353	0.11	0.9483328	2	0.95	0.65	1.38	0.92	0.45	1.90
PLCO	17	0.209|0.218	48|21|5|277|147|24	74|448	0.71	0.7026286	2	1.21	0.70	2.10	0.83	0.30	2.29
WHI	22	0.212|0.209	187|91|17|1106|544|93	295|1743	0.10	0.9530862	2	1.01	0.77	1.33	0.93	0.54	1.59
STAGE3	10	0.207|0.228	334|168|25|958|544|91	527|1593	1.97	0.3736279	2	1.13	0.91	1.40	1.27	0.80	2.01
NHS2	19	0.206|0.211	55|25|5|214|112|16	85|342	0.49	0.7842419	2	1.15	0.68	1.95	0.82	0.29	2.34
PBCS2	2	0.212|0.254	215|109|18|398|260|50	342|708	4.44	0.1083745	2	1.29	0.98	1.70	1.50	0.85	2.64
WHS	15	0.190|0.204	64|34|2|346|172|25	100|543	1.51	0.4706761	2	0.94	0.59	1.47	2.31	0.53	10.00
PBCS 1+2	8	0.227|0.251	321|179|31|601|385|73	531|1059	2.13	0.3439063	2	1.15	0.92	1.44	1.26	0.81	1.96

Locus Alleles Chr Location Neighborhood
rs11077820 T|C 17q25.1 71966263 UBE2O,AANAT

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	14	0.359|0.367	543|598|173|2153|2342|760	1314|5255	1.48	0.4759543	2	0.99	0.87	1.13	1.11	0.92	1.34
NHS	19	0.374|0.374	73|83|27|329|353|125	183|807	0.17	0.918994	2	0.94	0.67	1.34	1.03	0.63	1.67
STAGE1-2	11	0.361|0.368	318|364|101|1502|1623|538	783|3663	2.15	0.3420604	2	0.94	0.80	1.11	1.13	0.88	1.44
STAGE2	9	0.357|0.367	245|281|74|1173|1270|413	600|2856	2.22	0.3299432	2	0.94	0.78	1.14	1.17	0.88	1.55
CPSII	18	0.357|0.359	17|20|5|131|143|42	42|316	0.11	0.9472167	2	0.93	0.47	1.85	1.09	0.38	3.13
PBCS1	7	0.381|0.334	74|86|29|160|150|43	189|353	2.27	0.3215621	2	0.81	0.55	1.18	0.69	0.40	1.18
PLCO	20	0.358|0.354	30|35|9|188|200|58	74|446	0.16	0.9236333	2	0.91	0.54	1.54	1.03	0.46	2.29
WHI	3	0.342|0.378	124|140|31|694|777|270	295|1741	5.01	0.0816925	2	0.99	0.76	1.29	1.56	1.02	2.36
STAGE3	22	0.356|0.365	225|234|72|651|720|222	531|1593	0.37	0.8297748	2	1.06	0.86	1.31	1.07	0.78	1.45
NHS2	3	0.337|0.373	43|32|14|136|163|48	89|347	3.54	0.170521	2	1.61	0.97	2.68	1.08	0.55	2.15
PBCS2	15	0.366|0.382	141|153|49|269|335|102	343|706	0.94	0.6252447	2	1.15	0.87	1.52	1.09	0.73	1.62
WHS	9	0.338|0.339	41|49|9|246|222|72	99|540	2.89	0.235282	2	0.76	0.48	1.19	1.33	0.62	2.87
PBCS 1+2	20	0.371|0.366	215|239|78|429|484|145	532|1058	0.29	0.8671371	2	1.01	0.81	1.27	0.93	0.68	1.28

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	15	0.162|0.161	925|353|36|3746|1354|170	1314|5270	1.42	0.4913632	2	0.95	0.83	1.09	1.17	0.81	1.68

NHS	15	0.164|0.168	129|48|6|572|199|36	183|807	0.64	0.7253908	2	0.94	0.65	1.35	1.35	0.56	3.28
STAGE1-2	4	0.176|0.161	533|223|26|2613|923|129	782|3665	3.74	0.1537875	2	0.84	0.71	1.00	1.01	0.66	1.56
STAGE2	6	0.179|0.159	404|175|20|2041|724|93	599|2858	3.98	0.136395	2	0.82	0.67	1.00	0.92	0.56	1.51
CPSII	8	0.183|0.171	29|9|3|220|84|12	41|316	1.38	0.50279	2	1.23	0.56	2.71	0.53	0.14	1.98
PBCS1	1	0.148|0.156	134|54|1|259|76|17	189|352	9.45	0.0088682	2	0.73	0.49	1.09	8.80	1.16	66.80
PLCO	2	0.230|0.160	41|32|1|318|117|13	74|448	9.34	0.0093884	2	0.47	0.28	0.78	1.68	0.21	13.15
WHI	5	0.186|0.158	200|80|15|1244|447|51	295|1742	4.30	0.1167437	2	0.90	0.68	1.19	0.55	0.30	0.99
STAGE3	8	0.141|0.160	392|130|10|1133|431|41	532|1605	2.19	0.3349858	2	1.15	0.91	1.44	1.42	0.70	2.86
NHS2	20	0.154|0.153	65|24|2|254|88|10	91|352	0.17	0.9186397	2	0.94	0.55	1.59	1.28	0.27	5.98
PBCS2	12	0.136|0.158	254|81|6|496|184|18	341|698	1.65	0.4384753	2	1.16	0.86	1.57	1.54	0.60	3.92
WHS	19	0.145|0.167	73|25|2|383|159|13	100|555	0.64	0.7265944	2	1.21	0.74	1.98	1.24	0.27	5.61
PBCS 1+2	2	0.141|0.157	388|135|7|755|260|35	530|1050	5.52	0.0632762	2	0.99	0.78	1.26	2.57	1.13	5.84

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	16	0.231|0.224	769|476|65|3177|1825|269	1310|5271	1.35	0.5083239	2	0.93	0.82	1.05	1.00	0.76	1.33
NHS	18	0.238|0.245	107|65|11|457|304|46	183|807	0.30	0.8611642	2	1.10	0.78	1.54	0.98	0.49	1.95
STAGE1-2	8	0.234|0.228	453|292|37|2196|1270|201	782|3667	2.44	0.2956243	2	0.90	0.76	1.06	1.12	0.78	1.61
STAGE2	3	0.233|0.223	346|227|26|1739|966|155	599|2860	4.30	0.1164981	2	0.85	0.70	1.02	1.19	0.77	1.83
CPSII	5	0.262|0.201	22|18|2|203|99|14	42|316	2.35	0.3093954	2	0.60	0.31	1.16	0.76	0.16	3.56
PBCS1	2	0.214|0.215	113|71|5|223|108|22	189|353	5.22	0.0736171	2	0.77	0.53	1.12	2.23	0.82	6.04
PLCO	8	0.243|0.238	40|32|2|259|165|24	74|448	1.75	0.4174628	2	0.80	0.48	1.32	1.85	0.42	8.14
WHI	18	0.238|0.225	171|106|17|1054|594|95	294|1743	0.56	0.7562711	2	0.91	0.74	1.18	0.91	0.53	1.56
STAGE3	14	0.227|0.215	316|184|28|981|555|68	528|1604	1.12	0.5719789	2	0.97	0.79	1.20	0.78	0.49	1.24
NHS2	17	0.236|0.232	53|30|6|201|125|17	89|343	0.58	0.7478005	2	1.10	0.67	1.81	0.75	0.28	1.99
PBCS2	19	0.215|0.210	211|115|16|448|228|35	342|711	0.26	0.8762158	2	0.93	0.71	1.23	1.03	0.56	1.90
WHS	7	0.263|0.213	52|39|6|332|202|16	97|550	3.51	0.1733184	2	0.81	0.52	1.27	0.42	0.16	1.12
PBCS 1+2	5	0.215|0.211	324|186|21|671|336|57	531|1064	2.95	0.2287657	2	0.87	0.70	1.09	1.31	0.78	2.20

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.108|0.109	1047|249|17|4185|1048|54	1313|5287	1.17	0.5570964	2	1.05	0.90	1.23	0.79	0.46	1.38
NHS	6	0.117|0.108	145|33|5|642|155|10	183|807	2.31	0.3158402	2	1.06	0.70	1.61	0.45	0.15	1.34
STAGE1-2	17	0.107|0.111	626|146|11|2898|724|43	783|3665	0.75	0.6863624	2	1.07	0.88	1.31	0.84	0.43	1.65
STAGE2	15	0.104|0.111	481|113|6|2256|569|33	600|2858	0.49	0.782334	2	1.07	0.86	1.34	1.17	0.49	2.81
CPSII	3	0.071|0.111	37|4|1|250|62|4	42|316	2.75	0.2524626	2	2.29	0.79	6.68	0.59	0.06	5.44
PBCS1	11	0.101|0.123	152|36|1|270|79|4	189|353	1.38	0.5026115	2	1.24	0.79	1.92	2.25	0.25	20.33
PLCO	22	0.122|0.106	56|18|0|357|87|4	74|448									
WHI	21	0.107|0.110	236|55|4|1379|341|21	295|1741	0.18	0.9133754	2	1.06	0.77	1.46	0.90	0.31	2.64
STAGE3	16	0.108|0.107	421|103|6|1289|324|11	530|1624	1.10	0.576665	2	1.03	0.80	1.32	0.60	0.22	1.63
NHS2	6	0.136|0.100	68|16|4|290|59|6	88|355	2.82	0.2442824	2	0.86	0.47	1.60	0.35	0.10	1.28
PBCS2	23	0.105|0.107	273|68|2|565|143|5	343|713	0.06	0.9711576	2	1.02	0.74	1.40	1.21	0.23	6.27
WHS	24	0.096|0.110	80|19|0|434|122|0	99|556									
PBCS 1+2	15	0.103|0.113	425|104|3|833|222|9	532|1064	0.79	0.6735189	2	1.09	0.84	1.41	1.53	0.41	5.68

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.370|0.367	521|572|187|2078|2378|707	1280|5163	1.09	0.5787631	2	1.04	0.91	1.19	0.95	0.79	1.14
NHS	11	0.369|0.362	77|68|31|333|343|115	176|791	1.75	0.4166609	2	1.17	0.81	1.67	0.86	0.54	1.37
STAGE1-2	14	0.374|0.363	233|255|88|1325|1468|438	576|3231	1.23	0.5400573	2	1.01	0.84	1.23	0.88	0.67	1.14
STAGE2	14	0.376|0.363	156|187|57|992|1125|323	400|2440	0.53	0.7683314	2	0.95	0.75	1.19	0.89	0.64	1.24

NHS2	13	0.278|0.286	48|31|9|179|142|29	88|350	0.97	0.6153598	2	1.23	0.74	2.03	0.86	0.38	1.95
PBCS2	11	0.244|0.265	198|121|23|381|280|48	342|709	1.75	0.417508	2	1.20	0.91	1.58	1.08	0.64	1.84
WHS	10	0.283|0.271	48|46|5|29|214|43	99|554	2.55	0.2790198	2	0.75	0.48	1.17	1.39	0.52	3.68
PBCS 1+2	12	0.245|0.265	303|191|34|579|403|80	528|1062	1.41	0.4947511	2	1.10	0.89	1.38	1.23	0.81	1.88

Locus Alleles Chr Location Neighborhood
rs3134615 G|T 1p34.2 40134653 TRIT1,MYCL1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.249|0.243	734|499|77|3003|1970|297	1310|5270	0.42	0.811853	2	0.97	0.85	1.10	0.94	0.72	1.23
NHS	16	0.260|0.262	101|69|13|433|325|49	183|807	0.57	0.7535155	2	1.10	0.78	1.54	0.88	0.46	1.68
STAGE1-2	15	0.255|0.247	428|310|45|2072|1377|218	783|3667	1.14	0.565246	2	0.92	0.78	1.08	1.00	0.71	1.40
STAGE2	7	0.254|0.243	327|241|32|1639|1052|169	600|2860	2.49	0.2878889	2	0.87	0.72	1.05	1.05	0.71	1.57
CPSII	11	0.250|0.222	23|17|2|193|106|17	42|316	0.79	0.6736434	2	0.74	0.38	1.45	1.01	0.22	4.67
PBCS1	3	0.235|0.231	106|77|6|213|117|23	189|353	4.93	0.084963	2	0.76	0.52	1.09	1.91	0.75	4.83
PLCO	13	0.264|0.253	38|33|3|247|175|26	74|448	1.00	0.6052829	2	0.82	0.49	1.35	1.33	0.38	4.62
WHI	16	0.264|0.247	160|114|21|986|654|103	295|1743	0.93	0.626649	2	0.93	0.72	1.21	0.80	0.48	1.31
STAGE3	17	0.241|0.235	306|190|32|931|595|80	528|1606	1.00	0.6052663	2	1.03	0.84	1.27	0.82	0.53	1.26
NHS2	8	0.230|0.244	54|26|7|196|131|19	87|346	2.33	0.3120306	2	1.39	0.83	2.33	0.75	0.30	1.87
PBCS2	17	0.230|0.225	202|124|17|427|240|39	343|706	0.55	0.7609846	2	0.92	0.70	1.20	1.09	0.60	1.97
WHS	8	0.286|0.242	50|40|8|308|224|22	98|554	3.50	0.1736943	2	0.91	0.58	1.43	0.45	0.19	1.06
PBCS 1+2	4	0.232|0.226	308|200|23|640|355|61	531|1056	3.45	0.1782114	2	0.85	0.69	1.06	1.28	0.78	2.10

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.024|0.026	1251|59|2|4997|257|9	1312|5263	0.37	0.8329134	2	1.09	0.82	1.46	1.13	0.24	5.22
NHS	22	0.022|0.026	175|8|0|765|42|0	183|807									
STAGE1-2	23	0.022|0.025	749|34|0|3487|178|2	783|3667									
STAGE2	23	0.022|0.024	574|26|0|2722|136|2	600|2860									
CPSII	22	0.000|0.019	42|0|0|305|10|1	42|316									
PBCS1	22	0.021|0.024	181|8|0|336|17|0	189|353									
PLCO	24	0.020|0.026	71|3|0|425|23|0	74|448									
WHI	24	0.025|0.025	280|15|0|1656|86|1	295|1743									
STAGE3	24	0.027|0.029	502|25|2|1511|79|7	529|1597	0.08	0.9622211	2	1.05	0.66	1.66	1.16	0.24	5.62
NHS2	24	0.000|0.030	88|0|0|334|15|3	88|352									
PBCS2	24	0.033|0.028	322|21|1|669|40|0	344|709									
WHS	21	0.031|0.030	92|4|1|508|24|4	97|536	0.11	0.947642	2	1.09	0.37	3.20	0.72	0.08	6.55
PBCS 1+2	24	0.029|0.027	503|29|1|1004|57|0	533|1061									

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.385|0.386	428|533|168|1679|2133|657	1129|4469	0.10	0.9520765	2	1.02	0.88	1.18	1.00	0.82	1.22
STAGE1-2	10	0.361|0.384	245|277|78|1078|1366|416	600|2860	2.38	0.3049464	2	1.12	0.93	1.35	1.21	0.92	1.60
STAGE2	8	0.361|0.384	245|277|78|1078|1366|416	600|2860	2.38	0.3049464	2	1.12	0.93	1.35	1.21	0.92	1.60
CPSII	2	0.369|0.413	18|17|7|96|179|41	42|316	3.96	0.1380846	2	1.97	0.97	4.01	1.10	0.43	2.83
PBCS1	6	0.384|0.375	67|99|23|140|161|52	189|353	2.33	0.3116446	2	0.78	0.53	1.14	1.08	0.61	1.91
PLCO	6	0.338|0.394	30|38|6|170|203|75	74|448	3.66	0.1601322	2	0.94	0.56	1.59	2.21	0.88	5.52
WHI	6	0.351|0.378	130|123|42|672|823|248	295|1743	3.61	0.1647454	2	1.29	0.99	1.69	1.14	0.78	1.67
STAGE3	11	0.412|0.388	183|257|90|601|769|241	530|1611	1.94	0.3787062	2	0.91	0.73	1.13	0.82	0.61	1.09
NHS2	1	0.439|0.369	33|35|22|134|171|43	90|348	8.70	0.0128981	2	1.20	0.71	2.04	0.48	0.25	0.91
PBCS2	4	0.411|0.398	111|181|50|263|330|118	342|711	3.92	0.1409327	2	0.77	0.58	1.02	1.00	0.67	1.48
WHS	13	0.393|0.388	39|41|18|204|268|80	98|552	1.80	0.4071124	2	1.25	0.78	2.01	0.85	0.46	1.57
PBCS 1+2	1	0.401|0.390	178|279|73|403|489|170	530|1062	6.19	0.0453098	2	0.77	0.62	0.97	1.03	0.74	1.43

unadj_trend

Locus	Alleles	Chr	Location	Neighborhood													
rs11249433	T|C	1p11.2		120982136	LOC647121												
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u				
STAGE1-3	1	0.399|0.439	478|610|215|1655|2556|1017	1303|5228	13.39	2.53E-04	1	1.18	1.08	1.28	1.38	1.38	1.16	1.65			
NHS	3	0.412|0.448	65|84|33|238|411|155	182|804	1.61	0.2038633	1	1.16	0.92	1.47	1.35	1.35	0.85	2.16			
STAGE1-2	1	0.407|0.441	271|383|126|1124|1831|695	780|3650	6.21	0.0126829	1	1.15	1.03	1.29	1.33	1.29	1.06	1.66			
STAGE2	1	0.406|0.439	206|299|93|886|1420|540	598|2846	4.65	0.03114	1	1.15	1.01	1.31	1.32	1.32	1.03	1.71			
CPSII	1	0.524|0.405	8|24|10|108|159|48	42|315	4.56	0.0327818	1	0.60	0.37	0.96	0.36	0.36	0.14	0.93			
PBCS1	9	0.392|0.407	67|96|26|124|171|58	189|353	0.24	0.6271678	1	1.07	0.82	1.38	1.14	1.14	0.68	1.91			
PLCO	15	0.411|0.427	26|34|13|140|232|75	73|447	0.14	0.7046061	1	1.07	0.75	1.54	1.15	1.15	0.56	2.38			
WHI	1	0.396|0.455	105|145|44|514|858|359	294|1731	7.09	0.0077679	1	1.27	1.07	1.52	1.62	1.62	1.14	2.32			
STAGE3	1	0.387|0.434	207|227|89|531|725|322	523|1578	6.52	0.0106382	1	1.20	1.04	1.38	1.43	1.43	1.09	1.89			
NHS2	18	0.450|0.440	29|41|20|114|152|73	90|339	0.06	0.8094536	1	0.96	0.70	1.32	0.93	0.93	0.49	1.74			
PBCS2	6	0.372|0.410	137|149|51|246|324|121	337|691	2.51	0.1129798	1	1.16	0.96	1.40	1.35	1.35	0.93	1.96			
WHS	3	0.380|0.461	41|37|18|171|249|128	96|548	3.89	0.0486311	1	1.35	1.00	1.83	1.83	1.83	1.00	3.34			
PBCS 1+2	2	0.379|0.409	204|245|77|370|495|179	526|1044	2.45	0.1172055	1	1.13	0.97	1.31	1.27	1.27	0.94	1.72			

Locus	Alleles	Chr	Location	Neighborhood												
rs7716600	C|A	5p12		44910762												
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u			
STAGE1-3	2	0.221|0.243	800|446|67|3042|1901|333	1313|5276	5.69	0.0170562	1	1.13	1.02	1.25	1.28	1.28	1.04	1.57		
NHS	14	0.246|0.253	108|60|15|451|303|53	183|807	0.09	0.768301	1	1.04	0.80	1.35	1.08	1.08	0.64	1.82		
STAGE1-2	3	0.227|0.249	473|265|45|2095|1316|253	783|3664	3.24	0.0720145	1	1.12	0.99	1.28	1.26	1.26	0.98	1.63		
STAGE2	3	0.221|0.247	365|205|30|1644|1013|200	600|2857	3.63	0.0568978	1	1.15	1.00	1.33	1.33	1.33	0.99	1.78		
CPSII	17	0.226|0.241	26|13|3|186|108|22	42|316	0.08	0.7798982	1	1.08	0.64	1.82	1.16	1.16	0.41	3.32		
PBCS1	22	0.272|0.272	99|77|13|186|139|26	189|351	0.00	0.9885096	1	1.00	0.75	1.32	1.00	1.00	0.57	1.75		
PLCO	2	0.169|0.232	52|19|3|261|166|21	74|448	2.99	0.0835335	1	1.50	0.94	2.39	2.25	2.25	0.89	5.69		
WHI	2	0.200|0.247	188|96|11|1011|600|131	295|1742	5.83	0.0157414	1	1.29	1.05	1.60	1.68	1.68	1.10	2.55		
STAGE3	10	0.212|0.231	327|181|22|948|587|79	530|1614	1.60	0.2055755	1	1.12	0.94	1.32	1.25	1.25	0.89	1.75		
NHS2	9	0.261|0.232	49|35|6|205|131|16	90|352	0.72	0.3965445	1	0.85	0.58	1.24	0.72	0.72	0.33	1.55		
PBCS2	3	0.195|0.233	219|111|11|417|254|38	341|709	3.85	0.0496455	1	1.26	1.00	1.58	1.58	1.58	1.00	2.49		
WHS	23	0.227|0.228	59|35|5|326|202|25	99|553	0.00	0.9855727	1	1.00	0.70	1.45	1.01	1.01	0.48	2.10		
PBCS 1+2	3	0.223|0.246	318|188|24|602|391|65	530|1058	2.17	0.1405657	1	1.14	0.96	1.36	1.30	1.30	0.92	1.85		

Locus	Alleles	Chr	Location	Neighborhood													
rs9491859	C|A	6q22.33		128106056	C6orf190												
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u				
STAGE1-3	3	0.357|0.376	534|613|160|2089|2392|784	1307|5265	3.21	0.0729782	1	1.08	0.99	1.18	1.18	1.18	0.99	1.40			
NHS	9	0.388|0.375	67|90|26|325|359|123	183|807	0.21	0.6454652	1	0.95	0.75	1.19	0.90	0.90	0.57	1.42			
STAGE1-2	17	0.372|0.376	308|368|107|1462|1649|555	783|3666	0.12	0.7344567	1	1.02	0.91	1.14	1.04	1.04	0.83	1.30			
STAGE2	12	0.367|0.377	241|278|81|1137|1290|432	600|2859	0.41	0.5205098	1	1.04	0.92	1.18	1.09	1.09	0.84	1.40			
CPSII	4	0.274|0.351	19|23|0|137|136|43	42|316	1.95	0.1625855	1	1.43	0.86	2.37	2.05	2.05	0.75	5.63			
PBCS1	15	0.354|0.364	83|78|28|147|154|51	189|352	0.08	0.7728884	1	1.04	0.81	1.34	1.08	1.08	0.65	1.78			
PLCO	23	0.378|0.376	29|34|11|170|219|59	74|448	0.00	0.9573337	1	0.99	0.69	1.43	0.98	0.98	0.47	2.03			
WHI	22	0.385|0.384	110|143|42|683|781|279	295|1743	0.00	0.9769745	1	1.00	0.84	1.19	0.99	0.99	0.70	1.41			
STAGE3	2	0.335|0.375	226|245|53|628|743|229	524|1600	5.57	0.0182593	1	1.19	1.03	1.38	1.43	1.43	1.06	1.91			
NHS2	15	0.349|0.366	36|40|10|147|152|53	86|352	0.18	0.674142	1	1.08	0.77	1.51	1.16	1.16	0.59	2.29			
PBCS2	7	0.335|0.365	146|160|34|286|322|96	340|704	1.79	0.1813084	1	1.14	0.94	1.38	1.30	1.30	0.88	1.92			
WHS	4	0.321|0.394	44|45|9|195|269|80	98|544	3.87	0.0492851	1	1.39	1.00	1.94	1.93	1.93	1.00	3.75			
PBCS 1+2	5	0.342|0.365	229|238|62|432|476|147	529|1055	1.56	0.2113033	1	1.10	0.95	1.29	1.22	1.22	0.89	1.65			

Locus Alleles Chr Location Neighborhood

rs12622050	G|A	2q11.2	100945886	NPAS2											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI	hom OR 95% CI_u	
STAGE1-3	4	0.223|0.208	795|444|70|3307|1695|246	1309|5248	2.66	0.1027384	1	0.92	0.83	1.02	0.84	0.69	1.03		
NHS	19	0.191|0.189	122|52|9|529|251|27	183|807	0.01	0.9198816	1	0.99	0.74	1.31	0.97	0.55	1.73		
STAGE1-2	23	0.200|0.200	504|243|35|2361|1141|162	782|3664	0.00	0.9851776	1	1.00	0.87	1.14	1.00	0.76	1.31		
STAGE2	23	0.203|0.203	382|191|26|1832|890|135	599|2857	0.00	0.9894318	1	1.00	0.86	1.17	1.00	0.74	1.36		
CPSII	5	0.146|0.213	29|12|0|201|94|20	41|315	1.80	0.1792826	1	1.53	0.82	2.84	2.33	0.67	8.08		
PBCS1	5	0.222|0.249	114|66|9|204|121|27	189|352	0.89	0.344647	1	1.15	0.86	1.54	1.32	0.74	2.36		
PLCO	20	0.203|0.195	47|24|3|288|145|15	74|448	0.05	0.8317723	1	0.95	0.61	1.48	0.91	0.38	2.19		
WHI	18	0.198|0.194	192|89|14|1139|530|73	295|1742	0.06	0.8111826	1	0.97	0.79	1.21	0.95	0.62	1.46		
STAGE3	4	0.257|0.227	291|201|35|947|555|83	527|1585	3.86	0.049454	1	0.85	0.72	1.00	0.72	0.52	1.00		
NHS2	17	0.206|0.215	53|29|3|210|117|15	85|342	0.07	0.7949841	1	1.06	0.70	1.61	1.12	0.48	2.58		
PBCS2	5	0.278|0.245	177|141|25|402|254|45	343|701	2.62	0.1053411	1	0.84	0.69	1.04	0.71	0.47	1.07		
WHS	17	0.227|0.212	61|31|7|335|184|23	99|542	0.23	0.6349787	1	0.92	0.64	1.32	0.84	0.41	1.73		
PBCS 1+2	13	0.258|0.247	291|207|34|605|374|73	532|1052	0.47	0.4932279	1	0.94	0.80	1.11	0.89	0.64	1.24		

Locus Alleles Chr Location Neighborhood
rs7936636 C|T 11p11.2 44397546

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	5	0.234|0.249	773|464|75|2989|1934|347	1312|5270	2.62	0.105839	1	1.09	0.98	1.20	1.18	0.97	1.44
NHS	5	0.219|0.247	110|66|7|470|276|61	183|807	1.21	0.2713948	1	1.16	0.89	1.51	1.35	0.79	2.29
STAGE1-2	5	0.226|0.245	474|264|45|2117|1303|246	783|3666	2.39	0.1222858	1	1.11	0.97	1.26	1.22	0.95	1.58
STAGE2	7	0.228|0.244	364|198|38|1647|1027|185	600|2859	1.34	0.24734	1	1.09	0.94	1.26	1.19	0.89	1.59
CPSII	9	0.274|0.222	23|15|4|197|98|21	42|316	1.05	0.3064476	1	0.78	0.48	1.26	0.60	0.23	1.60
PBCS1	19	0.228|0.229	115|62|12|212|119|21	189|352	0.00	0.9656885	1	1.01	0.75	1.35	1.01	0.57	1.81
PLCO	18	0.243|0.253	45|22|7|254|161|33	74|448	0.06	0.7997809	1	1.05	0.71	1.56	1.11	0.51	2.42
WHI	7	0.219|0.249	181|99|15|984|649|110	295|1743	2.54	0.1107957	1	1.19	0.96	1.46	1.41	0.92	2.14
STAGE3	12	0.246|0.259	299|200|30|872|631|100	529|1603	0.77	0.3787901	1	1.08	0.91	1.27	1.16	0.84	1.60
NHS2	19	0.233|0.241	51|33|4|204|123|23	88|350	0.05	0.8159587	1	1.05	0.71	1.54	1.10	0.51	2.37
PBCS2	20	0.265|0.268	185|133|24|372|282|47	342|701	0.03	0.8615618	1	1.02	0.83	1.26	1.04	0.68	1.58
WHS	1	0.192|0.259	63|34|2|296|226|30	99|552	4.35	0.0371067	1	1.51	1.02	2.24	2.29	1.05	5.01
PBCS 1+2	20	0.251|0.256	300|195|36|584|401|69	531|1054	0.07	0.7947711	1	1.02	0.86	1.21	1.05	0.75	1.47

Locus Alleles Chr Location Neighborhood
rs999737 C|T 14q24.1 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	6	0.229|0.216	773|472|64|3232|1803|234	1309|5269	2.33	0.1268253	1	0.92	0.83	1.02	0.85	0.69	1.05
NHS	4	0.239|0.209	105|67|10|499|278|30	182|807	1.60	0.2064646	1	0.84	0.64	1.10	0.70	0.41	1.22
STAGE1-2	8	0.224|0.211	469|275|38|2274|1237|156	782|3667	1.36	0.2440733	1	0.92	0.81	1.06	0.85	0.66	1.11
STAGE2	13	0.220|0.212	364|208|28|1775|959|126	600|2860	0.41	0.5227958	1	0.95	0.82	1.11	0.91	0.67	1.23
CPSII	20	0.214|0.223	27|12|3|193|105|18	42|316	0.03	0.8588138	1	1.05	0.61	1.80	1.10	0.37	3.25
PBCS1	4	0.228|0.203	115|62|12|219|125|9	189|353	0.95	0.3285901	1	0.86	0.63	1.17	0.74	0.40	1.36
PLCO	8	0.189|0.225	48|24|2|262|170|16	74|448	1.06	0.3035114	1	1.27	0.80	2.01	1.62	0.65	4.04
WHI	14	0.224|0.208	174|110|11|1101|559|83	295|1743	0.75	0.387869	1	0.91	0.74	1.12	0.83	0.55	1.26
STAGE3	15	0.236|0.225	305|197|26|959|567|78	528|1604	0.50	0.479805	1	0.94	0.80	1.11	0.89	0.64	1.24
NHS2	10	0.208|0.234	55|31|3|205|120|21	89|346	0.54	0.4608853	1	1.16	0.78	1.73	1.35	0.61	3.00
PBCS2	17	0.234|0.224	198|125|17|422|248|34	340|704	0.23	0.6285667	1	0.95	0.76	1.18	0.90	0.58	1.39
WHS	6	0.268|0.221	52|41|6|332|199|23	99|554	2.16	0.141508	1	0.77	0.54	1.09	0.59	0.29	1.20
PBCS 1+2	9	0.232|0.217	312|187|29|640|372|43	528|1055	0.93	0.3346859	1	0.92	0.77	1.09	0.84	0.59	1.20

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
--------	------	-----	-------------	----------	----------	---------------	----	--------	---------------	---------------	--------	---------------	-----------------

STAGE1-3	7	0.131|0.121	1001|279|33|4075|1120|78	1313|5273	2.07	0.1503945	1	0.91	0.80	1.03	0.83	0.65	1.07
NHS	1	0.156|0.121	127|55|1|624|169|13	183|806	3.31	0.0690526	1	0.74	0.54	1.02	0.55	0.29	1.05
STAGE1-2	2	0.143|0.121	581|180|22|2831|783|52	783|3666	5.69	0.0170217	1	0.83	0.71	0.97	0.68	0.50	0.93
STAGE2	4	0.139|0.121	454|125|21|2207|614|39	600|2860	2.97	0.0850757	1	0.85	0.71	1.02	0.73	0.51	1.05
CPSII	15	0.131|0.114	33|7|2|250|60|6	42|316	0.19	0.6604261	1	0.86	0.45	1.66	0.75	0.20	2.74
PBCS1	2	0.135|0.110	142|43|4|278|72|3	189|353	1.42	0.2335065	1	0.79	0.54	1.16	0.63	0.29	1.35
PLCO	4	0.162|0.116	57|10|7|348|96|4	74|448	2.38	0.1232912	1	0.69	0.43	1.11	0.48	0.19	1.23
WHI	15	0.137|0.126	222|65|8|1331|386|26	295|1743	0.61	0.433673	1	0.90	0.70	1.17	0.82	0.49	1.36
STAGE3	17	0.115|0.122	420|100|11|1244|340|26	531|1610	0.35	0.556083	1	1.07	0.86	1.32	1.14	0.74	1.74
NHS2	13	0.132|0.117	71|16|4|272|72|5	91|349	0.27	0.6052523	1	0.88	0.55	1.42	0.78	0.30	2.01
PBCS2	10	0.102|0.119	276|62|4|554|145|12	342|711	1.22	0.2688138	1	1.18	0.88	1.58	1.39	0.78	2.49
WHS	15	0.143|0.128	73|22|3|418|123|9	98|550	0.31	0.5765855	1	0.88	0.57	1.36	0.78	0.33	1.86
PBCS 1+2	23	0.113|0.115	418|104|8|832|214|15	530|1061	0.02	0.8826962	1	1.02	0.81	1.28	1.04	0.65	1.64

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	8	0.262|0.282	383|276|47|991|791|148	706|1930	2.00	0.1569693	1	1.11	0.96	1.27	1.22	0.93	1.61
STAGE3	3	0.245|0.277	298|198|30|830|650|118	526|1598	4.17	0.0410873	1	1.18	1.01	1.39	1.40	1.01	1.94
NHS2	12	0.262|0.283	49|29|8|181|137|30	86|348	0.30	0.5838894	1	1.11	0.77	1.60	1.23	0.59	2.57
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	7.09	0.0077615	1	1.34	1.08	1.67	1.81	1.17	2.79
WHS	20	0.268|0.259	53|39|7|299|205|38	99|542	0.06	0.8044001	1	0.96	0.68	1.35	0.92	0.46	1.81
PBCS 1+2	1	0.261|0.293	281|208|32|511|449|80	521|1040	3.60	0.0579455	1	1.18	0.99	1.40	1.39	0.99	1.96

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	9	0.164|0.176	915|363|34|3610|1460|197	1312|5267	1.95	0.1622491	1	1.08	0.97	1.21	1.17	0.94	1.47
NHS	13	0.172|0.179	125|53|5|542|240|24	183|806	0.09	0.7661948	1	1.05	0.77	1.42	1.10	0.60	2.01
STAGE1-2	19	0.173|0.176	538|219|26|2510|1021|135	783|3666	0.08	0.7791053	1	1.02	0.89	1.18	1.04	0.78	1.38
STAGE2	21	0.173|0.175	413|166|21|1968|781|111	600|2860	0.03	0.8705694	1	1.01	0.86	1.19	1.03	0.75	1.41
CPSII	16	0.190|0.171	28|12|2|221|82|13	42|316	0.18	0.6684132	1	0.89	0.51	1.55	0.78	0.26	2.40
PBCS1	6	0.251|0.231	107|69|13|208|127|18	189|353	0.57	0.4519804	1	0.89	0.67	1.20	0.80	0.45	1.43
PLCO	7	0.122|0.156	57|16|1|322|112|14	74|448	1.13	0.2868424	1	1.32	0.79	2.21	1.75	0.62	4.90
WHI	3	0.134|0.170	221|69|5|1217|460|66	295|1743	4.48	0.034234	1	1.31	1.02	1.67	1.70	1.04	2.79
STAGE3	5	0.151|0.176	377|144|8|1100|440|62	529|1602	3.37	0.0662407	1	1.19	0.99	1.44	1.42	0.98	2.08
NHS2	14	0.148|0.162	62|26|0|249|82|15	88|346	0.20	0.658212	1	1.11	0.71	1.73	1.22	0.50	3.00
PBCS2	4	0.156|0.188	243|93|7|467|211|27	343|705	3.21	0.0732078	1	1.25	0.98	1.60	1.57	0.96	2.56
WHS	9	0.138|0.170	72|25|1|384|147|20	98|551	1.19	0.2757344	1	1.27	0.83	1.95	1.61	0.68	3.80
PBCS 1+2	12	0.190|0.202	350|162|20|675|337|45	532|1057	0.65	0.420228	1	1.08	0.90	1.30	1.16	0.80	1.69

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	10	0.405|0.418	452|660|202|1751|2638|885	1314|5274	1.52	0.2180189	1	1.06	0.97	1.15	1.12	0.94	1.33
NHS	16	0.434|0.429	54|99|30|253|415|139	183|807	0.03	0.855658	1	0.98	0.77	1.24	0.96	0.60	1.53
STAGE1-2	4	0.402|0.425	270|396|117|1181|1857|629	783|3667	2.77	0.0959142	1	1.10	0.98	1.23	1.21	0.97	1.52
STAGE2	2	0.393|0.423	216|297|87|928|1442|490	600|2860	4.03	0.0446343	1	1.14	1.00	1.30	1.30	1.01	1.69
CPSII	11	0.369|0.416	17|19|6|107|155|54	42|316	0.68	0.4088112	1	1.22	0.76	1.96	1.49	0.58	3.83
PBCS1	21	0.368|0.368	74|91|24|141|164|48	189|353	0.00	0.9857181	1	1.00	0.77	1.30	1.00	0.60	1.69
PLCO	9	0.426|0.393	25|35|14|162|220|66	74|448	0.58	0.445215	1	0.87	0.61	1.24	0.76	0.37	1.55
WHI	4	0.403|0.444	100|152|43|518|903|322	295|1743	3.53	0.0604453	1	1.19	0.99	1.43	1.42	0.98	2.04
STAGE3	20	0.409|0.402	182|265|85|570|782|256	532|1608	0.14	0.7069771	1	0.97	0.84	1.12	0.95	0.71	1.26
NHS2	4	0.483|0.423	22|47|19|119|167|65	88|351	2.04	0.1536396	1	0.79	0.56	1.09	0.62	0.32	1.20

PBCS2	16	0.397|0.386	122|171|51|266|333|105	344|704	0.24	0.6210363	1	0.95	0.79	1.15	0.91	0.62	1.32
WHS	13	0.385|0.410	38|47|15|185|282|86	100|553	0.48	0.4897434	1	1.12	0.81	1.53	1.25	0.66	2.35
PBCS 1+2	18	0.386|0.380	196|261|75|407|496|153	532|1056	0.13	0.7188577	1	0.97	0.84	1.13	0.95	0.70	1.28

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	11	0.323|0.335	592|587|129|2368|2287|625	1308|5280	1.32	0.2502952	1	1.05	0.96	1.15	1.11	0.93	1.33
NHS	6	0.308|0.328	82|88|12|373|339|95	182|807	0.54	0.4632186	1	1.10	0.86	1.40	1.20	0.74	1.96
STAGE1-2	21	0.335|0.337	336|366|78|1631|1595|436	780|3662	0.03	0.8667912	1	1.01	0.90	1.13	1.02	0.81	1.28
STAGE2	19	0.343|0.339	254|278|66|1258|1256|341	598|2855	0.05	0.8220666	1	0.99	0.86	1.12	0.97	0.75	1.26
CPSII	13	0.381|0.340	16|20|6|139|138|38	42|315	0.55	0.4591504	1	0.84	0.53	1.34	0.70	0.28	1.79
PBCS1	18	0.321|0.326	84|86|17|161|150|39	187|350	0.03	0.8710312	1	1.02	0.78	1.34	1.05	0.61	1.79
PLCO	10	0.365|0.334	28|38|8|190|215|42	74|447	0.57	0.4493308	1	0.86	0.59	1.26	0.75	0.35	1.59
WHI	21	0.346|0.343	126|134|35|768|753|222	295|1743	0.01	0.9115703	1	0.99	0.83	1.19	0.98	0.68	1.41
STAGE3	9	0.308|0.331	255|222|52|734|693|189	529|1616	1.91	0.1673563	1	1.11	0.96	1.29	1.23	0.92	1.65
NHS2	2	0.264|0.331	52|30|9|162|155|41	91|358	2.89	0.0891744	1	1.36	0.95	1.95	1.86	0.91	3.80
PBCS2	22	0.333|0.330	154|148|40|326|301|84	342|711	0.02	0.8747063	1	0.98	0.81	1.19	0.97	0.66	1.42
WHS	2	0.260|0.334	49|44|3|246|237|64	96|547	4.01	0.0453537	1	1.42	1.01	2.01	2.03	1.01	4.06
PBCS 1+2	24	0.327|0.327	239|233|56|490|450|123	528|1063	0.00	0.9700755	1	1.00	0.86	1.17	1.01	0.74	1.37

Locus Alleles Chr Location Neighborhood
rs17740709 A|G 12q21.31 81947471 TMTC2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	12	0.209|0.219	828|417|65|3251|1707|300	1310|5258	1.32	0.2503891	1	1.06	0.96	1.18	1.13	0.92	1.38
NHS	2	0.180|0.222	121|58|4|502|251|54	183|807	2.92	0.0874756	1	1.28	0.96	1.70	1.63	0.93	2.87
STAGE1-2	15	0.210|0.216	494|249|40|2293|1165|209	783|3667	0.24	0.6246167	1	1.03	0.91	1.18	1.07	0.82	1.38
STAGE2	18	0.219|0.214	373|191|36|1791|914|155	600|2860	0.15	0.6987422	1	0.97	0.84	1.13	0.94	0.70	1.27
CPSII	3	0.131|0.199	32|9|1|205|96|15	42|316	2.13	0.1442933	1	1.62	0.84	3.11	2.62	0.71	9.66
PBCS1	13	0.254|0.245	106|70|13|203|127|23	189|353	0.10	0.7488889	1	0.95	0.72	1.27	0.91	0.52	1.61
PLCO	19	0.209|0.218	48|21|5|277|147|24	74|448	0.05	0.8272912	1	1.05	0.69	1.59	1.10	0.48	2.52
WHI	20	0.212|0.209	187|91|17|1106|544|93	295|1743	0.02	0.8953253	1	0.99	0.80	1.21	0.97	0.64	1.47
STAGE3	7	0.207|0.228	334|168|25|958|544|91	527|1593	1.97	0.1607257	1	1.13	0.95	1.33	1.27	0.91	1.78
NHS2	21	0.206|0.211	55|25|5|214|112|16	85|342	0.02	0.8957158	1	1.03	0.68	1.55	1.06	0.47	2.39
PBCS2	2	0.212|0.254	215|109|18|398|260|50	342|708	4.34	0.0371725	1	1.26	1.01	1.56	1.58	1.03	2.43
WHS	18	0.190|0.204	64|34|2|346|172|25	100|543	0.22	0.6419291	1	1.09	0.75	1.60	1.20	0.56	2.57
PBCS 1+2	4	0.227|0.251	321|179|31|601|385|73	531|1059	2.10	0.1471582	1	1.13	0.96	1.35	1.29	0.91	1.81

Locus Alleles Chr Location Neighborhood
rs17570439 T|C 1p34.2 40096797 TRIT1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	13	0.231|0.224	769|476|65|3177|1825|269	1310|5271	0.61	0.4332843	1	0.96	0.87	1.06	0.92	0.75	1.13
NHS	11	0.238|0.245	107|65|11|457|304|46	183|807	0.10	0.7571436	1	1.04	0.80	1.36	1.09	0.64	1.86
STAGE1-2	13	0.234|0.228	453|292|37|2196|1270|201	782|3667	0.26	0.607093	1	0.97	0.85	1.10	0.93	0.72	1.21
STAGE2	9	0.233|0.223	346|227|26|1739|966|155	599|2860	0.54	0.4617744	1	0.95	0.82	1.10	0.90	0.67	1.20
CPSII	6	0.262|0.201	22|18|2|203|99|14	42|316	1.66	0.1979045	1	0.71	0.42	1.20	0.50	0.18	1.44
PBCS1	20	0.214|0.215	113|71|5|223|108|22	189|353	0.00	0.9694986	1	1.01	0.74	1.36	1.01	0.55	1.85
PLCO	21	0.243|0.238	40|32|2|259|165|24	74|448	0.02	0.8816248	1	0.97	0.64	1.47	0.94	0.41	2.15
WHI	17	0.238|0.225	171|106|17|1054|594|95	294|1743	0.49	0.4840673	1	0.93	0.76	1.14	0.86	0.58	1.30
STAGE3	13	0.227|0.215	316|184|28|981|555|68	528|1604	0.67	0.4142288	1	0.93	0.79	1.10	0.87	0.62	1.22
NHS2	22	0.236|0.232	53|30|6|201|125|17	89|343	0.01	0.9062201	1	0.98	0.66	1.44	0.95	0.44	2.08
PBCS2	18	0.215|0.210	211|115|16|448|228|35	342|711	0.08	0.7806999	1	0.97	0.78	1.21	0.94	0.60	1.46
WHS	5	0.263|0.213	52|39|6|332|202|16	97|550	2.64	0.1042766	1	0.74	0.51	1.07	0.54	0.26	1.14
PBCS 1+2	22	0.215|0.211	324|186|21|671|336|57	531|1064	0.04	0.8356984	1	0.98	0.82	1.17	0.96	0.68	1.37

Locus	Alleles	Chr	Location	Neighborhood											
rs2391406	T|G	13q33.3		106586873											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	14	0.359|0.367	521|636|152|2088|2463|694	1309|5245	0.60	0.4392051	1	1.04	0.95	1.13	1.07	0.90	1.29		
NHS	12	0.358|0.366	72|91|20|323|377|107	183|807	0.09	0.7649385	1	1.04	0.82	1.32	1.08	0.67	1.73		
STAGE1-2	12	0.355|0.363	314|380|87|1453|1759|451	781|3663	0.43	0.5139465	1	1.04	0.93	1.17	1.08	0.86	1.36		
STAGE2	15	0.354|0.362	242|289|67|1130|1382|344	598|2856	0.34	0.5584328	1	1.04	0.91	1.19	1.08	0.83	1.41		
CPSII	7	0.402|0.339	12|25|4|132|150|31	41|313	1.44	0.2308214	1	0.74	0.45	1.21	0.54	0.20	1.48		
PBCS1	10	0.362|0.375	78|84|26|125|190|37	188|352	0.20	0.6516887	1	1.06	0.81	1.40	1.13	0.66	1.95		
PLCO	14	0.345|0.360	29|39|6|180|213|55	74|448	0.15	0.7014692	1	1.08	0.74	1.57	1.16	0.55	2.45		
WHI	11	0.344|0.365	123|141|31|693|829|221	295|1743	0.95	0.3294828	1	1.10	0.91	1.32	1.20	0.83	1.75		
STAGE3	16	0.365|0.376	207|255|65|635|705|243	527|1583	0.39	0.5316013	1	1.05	0.91	1.21	1.10	0.82	1.46		
NHS2	6	0.348|0.402	37|42|10|129|162|60	89|351	1.66	0.1980689	1	1.25	0.89	1.76	1.56	0.79	3.08		
PBCS2	24	0.382|0.381	126|171|45|275|321|108	342|704	0.00	0.9934236	1	1.00	0.83	1.21	1.00	0.69	1.45		
WHS	12	0.323|0.352	44|42|10|231|222|75	96|528	0.58	0.4469854	1	1.13	0.82	1.55	1.28	0.68	2.42		
PBCS 1+2	21	0.375|0.379	204|256|71|400|510|145	531|1055	0.06	0.8075242	1	1.02	0.87	1.19	1.04	0.76	1.41		
Locus	Alleles	Chr	Location	Neighborhood											
rs11077820	T|C	17q25.1		71966263	UBE2O,AANAT										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	15	0.359|0.367	543|598|173|2153|2342|760	1314|5255	0.60	0.4401695	1	1.04	0.95	1.13	1.07	0.90	1.28		
NHS	21	0.374|0.374	73|83|27|329|353|125	183|807	0.00	0.9803225	1	1.00	0.79	1.25	0.99	0.63	1.57		
STAGE1-2	14	0.361|0.368	318|364|101|1502|1623|538	783|3663	0.26	0.6095677	1	1.03	0.92	1.15	1.06	0.85	1.32		
STAGE2	14	0.357|0.367	245|281|74|1173|1270|413	600|2856	0.37	0.5431218	1	1.04	0.92	1.18	1.08	0.84	1.40		
CPSII	22	0.357|0.359	17|20|5|131|143|42	42|316	0.00	0.9710228	1	1.01	0.63	1.62	1.02	0.40	2.62		
PBCS1	1	0.381|0.334	74|86|29|160|150|43	189|353	2.26	0.1330034	1	0.82	0.64	1.06	0.68	0.41	1.13		
PLCO	22	0.358|0.354	30|35|9|188|200|58	74|446	0.01	0.9282604	1	0.98	0.69	1.41	0.97	0.47	1.99		
WHI	6	0.342|0.378	124|140|31|694|777|270	295|1741	2.67	0.1019762	1	1.16	0.97	1.39	1.35	0.94	1.94		
STAGE3	18	0.356|0.365	225|234|72|651|720|222	531|1593	0.30	0.585848	1	1.04	0.90	1.20	1.08	0.81	1.44		
NHS2	8	0.337|0.373	43|32|14|136|163|48	89|347	0.77	0.3805511	1	1.16	0.83	1.64	1.36	0.69	2.68		
PBCS2	13	0.366|0.382	141|153|49|269|335|102	343|706	0.49	0.4844427	1	1.07	0.89	1.29	1.14	0.79	1.67		
WHS	24	0.338|0.339	41|49|9|246|222|72	99|540	0.00	0.98927	1	1.00	0.73	1.37	1.00	0.54	1.87		
PBCS 1+2	19	0.371|0.366	215|239|78|429|484|145	532|1058	0.09	0.7658237	1	0.98	0.84	1.14	0.96	0.71	1.29		
Locus	Alleles	Chr	Location	Neighborhood											
rs4415084	C|T	5p12		44698272											
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u		
STAGE1-3	16	0.423|0.430	439|636|236|1736|2512|998	1311|5246	0.42	0.516192	1	1.03	0.94	1.12	1.06	0.89	1.26		
NHS	10	0.448|0.437	57|87|38|240|421|139	182|800	0.15	0.6972068	1	0.95	0.75	1.21	0.91	0.57	1.46		
STAGE1-2	18	0.424|0.428	267|367|148|1209|1769|681	782|3659	0.08	0.77770145	1	1.02	0.91	1.13	1.03	0.83	1.28		
STAGE2	17	0.417|0.425	210|280|110|969|1348|542	600|2859	0.29	0.5878464	1	1.03	0.91	1.17	1.07	0.84	1.37		
CPSII	21	0.393|0.389	16|19|7|121|144|51	42|316	0.00	0.9501369	1	0.99	0.62	1.56	0.97	0.39	2.42		
PBCS1	11	0.476|0.463	55|88|46|97|185|71	189|353	0.17	0.6805199	1	0.95	0.74	1.22	0.90	0.54	1.49		
PLCO	3	0.338|0.407	28|42|4|163|205|80	74|448	2.53	0.1114793	1	1.34	0.93	1.94	1.81	0.87	3.75		
WHI	9	0.402|0.429	111|131|53|588|814|340	295|1742	1.45	0.2292366	1	1.11	0.94	1.32	1.24	0.87	1.75		
STAGE3	14	0.421|0.434	173|269|89|528|747|319	531|1594	0.58	0.4460561	1	1.06	0.92	1.21	1.11	0.84	1.47		
NHS2	7	0.402|0.447	32|46|14|111|161|74	92|346	1.12	0.2903527	1	1.19	0.86	1.65	1.42	0.74	2.72		
PBCS2	9	0.413|0.440	117|165|58|226|346|140	340|712	1.29	0.2555841	1	1.11	0.93	1.34	1.24	0.86	1.79		
WHS	8	0.465|0.420	24|58|17|191|240|105	99|536	1.32	0.2503235	1	0.84	0.62	1.13	0.70	0.39	1.28		
PBCS 1+2	14	0.435|0.447	171|253|103|322|527|209	527|1058	0.35	0.5534333	1	1.05	0.90	1.21	1.09	0.81	1.47		
Locus	Alleles	Chr	Location	Neighborhood											
rs3134615	G|T	1p34.2		40134653	TRIT1,MYCL1										

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	17	0.249|0.243	734|499|77|3003|1970|297	1310|5270	0.41	0.5210439	1	0.97	0.88	1.07	0.94	0.77	1.14
NHS	20	0.260|0.262	101|69|13|433|325|49	183|807	0.01	0.9199331	1	1.01	0.78	1.32	1.03	0.61	1.74
STAGE1-2	11	0.255|0.247	428|310|45|2072|1377|218	783|3667	0.47	0.4911162	1	0.96	0.84	1.09	0.92	0.71	1.18
STAGE2	8	0.254|0.243	327|241|32|1639|1052|169	600|2860	0.67	0.4113562	1	0.94	0.82	1.09	0.89	0.66	1.18
CPSII	14	0.250|0.222	23|17|2|193|106|17	42|316	0.34	0.5597335	1	0.86	0.51	1.45	0.73	0.26	2.09
PBCS1	17	0.235|0.231	106|77|6|213|117|23	189|353	0.03	0.8649575	1	0.97	0.73	1.31	0.95	0.53	1.72
PLCO	17	0.264|0.253	38|33|3|247|175|26	74|448	0.07	0.7874276	1	0.95	0.63	1.42	0.89	0.40	2.01
WHI	12	0.264|0.247	160|114|21|986|654|103	295|1743	0.85	0.3562168	1	0.91	0.75	1.11	0.83	0.56	1.23
STAGE3	21	0.241|0.235	306|190|32|931|595|80	528|1606	0.13	0.7138456	1	0.97	0.82	1.14	0.94	0.68	1.31
NHS2	16	0.230|0.244	54|26|7|196|131|19	87|346	0.15	0.6942542	1	1.08	0.73	1.60	1.17	0.53	2.56
PBCS2	19	0.230|0.225	202|124|17|427|240|39	343|706	0.07	0.7943547	1	0.97	0.78	1.21	0.94	0.61	1.45
WHS	7	0.286|0.242	50|40|8|308|224|22	98|554	1.87	0.1713057	1	0.78	0.55	1.11	0.61	0.30	1.24
PBCS 1+2	16	0.232|0.226	308|200|23|640|355|61	531|1056	0.13	0.7146185	1	0.97	0.81	1.15	0.94	0.66	1.33

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	18	0.024|0.026	1251|59|2|4997|257|9	1312|5263	0.36	0.5478617	1	1.09	0.83	1.43	1.18	0.69	2.04
NHS	8	0.022|0.026	175|8|0|765|42|0	183|807	0.22	0.6422698	1	1.20	0.55	2.60	1.44	0.31	6.78
STAGE1-2	10	0.022|0.025	749|34|0|3487|178|2	783|3667	0.53	0.4673041	1	1.15	0.79	1.66	1.32	0.63	2.77
STAGE2	16	0.022|0.024	574|26|0|2722|136|2	600|2860	0.33	0.5631877	1	1.13	0.74	1.73	1.28	0.55	2.99
CPSII	24	0.000|0.019	42|0|0|305|10|1	42|316									
PBCS1	14	0.021|0.024	181|8|0|336|17|0	189|353	0.10	0.7577773	1	1.14	0.48	2.70	1.31	0.23	7.31
PLCO	13	0.020|0.026	71|3|0|425|23|0	74|448	0.16	0.6924138	1	1.28	0.37	4.38	1.64	0.14	19.17
WHI	23	0.025|0.025	280|15|0|1656|86|1	295|1743	0.00	0.979396	1	0.99	0.57	1.73	0.99	0.32	3.00
STAGE3	23	0.027|0.029	502|25|2|1511|79|7	529|1597	0.07	0.7855634	1	1.06	0.71	1.58	1.12	0.50	2.48
NHS2	24	0.000|0.030	88|0|0|334|15|3	88|352									
PBCS2	14	0.033|0.028	322|21|1|669|40|0	344|709	0.43	0.5098409	1	0.84	0.50	1.41	0.70	0.25	2.00
WHS	22	0.031|0.030	92|4|1|508|24|4	97|536	0.01	0.9420891	1	0.97	0.44	2.15	0.94	0.19	4.62
PBCS 1+2	17	0.029|0.027	503|29|1|1004|57|0	533|1061	0.13	0.717556	1	0.92	0.59	1.44	0.85	0.35	2.07

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	19	0.267|0.274	609|432|85|2365|1767|340	1126|4472	0.35	0.5517828	1	1.03	0.93	1.14	1.07	0.87	1.31
STAGE1-2	22	0.277|0.275	316|234|49|1508|1131|220	599|2859	0.03	0.8673675	1	0.99	0.86	1.14	0.98	0.74	1.29
STAGE2	20	0.277|0.275	316|234|49|1508|1131|220	599|2859	0.03	0.8673675	1	0.99	0.86	1.14	0.98	0.74	1.29
CPSII	12	0.310|0.266	21|16|5|173|118|25	42|316	0.68	0.4092313	1	0.82	0.50	1.32	0.67	0.25	1.75
PBCS1	8	0.250|0.265	106|70|12|198|123|32	188|353	0.26	0.6078967	1	1.08	0.81	1.42	1.16	0.66	2.01
PLCO	16	0.257|0.271	44|22|8|235|182|30	74|447	0.13	0.7236253	1	1.07	0.72	1.60	1.15	0.52	2.55
WHI	16	0.295|0.279	145|126|24|902|708|133	295|1743	0.61	0.4359268	1	0.93	0.76	1.12	0.86	0.58	1.26
STAGE3	11	0.257|0.272	294|198|37|857|636|120	529|1613	0.84	0.3587591	1	1.08	0.92	1.26	1.16	0.85	1.59
NHS2	20	0.278|0.286	48|31|9|179|142|29	88|350	0.04	0.8498463	1	1.04	0.72	1.49	1.07	0.52	2.22
PBCS2	11	0.244|0.265	198|121|23|381|280|48	342|709	1.06	0.3035432	1	1.12	0.90	1.38	1.25	0.82	1.90
WHS	19	0.283|0.271	48|46|5|297|214|43	99|554	0.12	0.7248184	1	0.94	0.67	1.32	0.89	0.45	1.74
PBCS 1+2	7	0.245|0.265	303|191|34|579|403|80	528|1062	1.41	0.2355662	1	1.11	0.94	1.31	1.23	0.88	1.72

Locus Alleles Chr Location Neighborhood
rs1274466 T|C 10p11.21 34510210 PARD3

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	20	0.436|0.433	411|654|244|1706|2563|1004	1309|5273	0.07	0.7980389	1	0.99	0.91	1.08	0.98	0.82	1.16
NHS	18	0.432|0.436	55|98|30|261|388|158	183|807	0.02	0.8758088	1	1.02	0.81	1.28	1.04	0.66	1.64

STAGE1-2	20	0.427|0.429	248|402|133|1213|1761|692	783|3666	0.03	0.8634978	1	1.01	0.90	1.13	1.02	0.82	1.27
STAGE2	22	0.425|0.427	193|304|103|952|1373|534	600|2859	0.01	0.904253	1	1.01	0.89	1.14	1.02	0.79	1.30
CPSII	19	0.429|0.440	15|18|9|101|152|63	42|316	0.04	0.8471834	1	1.05	0.67	1.64	1.09	0.44	2.70
PBCS1	7	0.439|0.457	57|98|34|104|174|74	189|352	0.34	0.5625296	1	1.08	0.84	1.39	1.16	0.70	1.93
PLCO	5	0.453|0.391	22|37|15|167|212|69	74|448	2.03	0.154338	1	0.78	0.55	1.10	0.60	0.30	1.21
WHI	13	0.408|0.428	99|151|45|580|835|328	295|1743	0.76	0.3844313	1	1.08	0.91	1.29	1.17	0.82	1.66
STAGE3	22	0.450|0.444	164|252|111|493|802|313	527|1608	0.10	0.747313	1	0.98	0.85	1.12	0.96	0.72	1.26
NHS2	3	0.500|0.429	21|47|21|114|168|65	89|347	2.86	0.0909365	1	0.75	0.54	1.05	0.57	0.29	1.10
PBCS2	12	0.432|0.451	115|156|69|211|357|141	340|709	0.62	0.4325401	1	1.08	0.90	1.29	1.16	0.80	1.67
WHS	16	0.464|0.445	28|49|21|168|277|107	98|552	0.26	0.6096394	1	0.92	0.68	1.25	0.85	0.46	1.57
PBCS 1+2	10	0.436|0.452	171|254|103|315|531|214	528|1060	0.80	0.37099	1	1.07	0.92	1.24	1.15	0.85	1.54

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	21	0.108|0.109	1047|249|17|4185|1048|54	1313|5287	0.05	0.8178044	1	1.02	0.89	1.17	1.03	0.78	1.36
NHS	7	0.117|0.108	145|33|5|642|155|10	183|807	0.24	0.6224405	1	0.92	0.65	1.30	0.84	0.42	1.69
STAGE1-2	16	0.107|0.111	626|146|11|2898|724|43	783|3665	0.14	0.7112003	1	1.03	0.87	1.23	1.07	0.75	1.52
STAGE2	11	0.104|0.111	481|113|6|2256|569|33	600|2858	0.49	0.4838183	1	1.08	0.88	1.32	1.16	0.77	1.74
CPSII	8	0.071|0.111	37|4|1|250|62|4	42|316	1.18	0.278287	1	1.60	0.68	3.78	2.57	0.46	14.31
PBCS1	3	0.101|0.123	152|36|1|270|79|4	189|353	1.30	0.2550826	1	1.27	0.84	1.92	1.61	0.71	3.67
PLCO	11	0.122|0.106	56|18|0|357|87|4	74|448	0.33	0.5632749	1	0.85	0.49	1.47	0.72	0.24	2.17
WHI	19	0.107|0.110	236|55|4|1379|341|21	295|1741	0.05	0.8174184	1	1.03	0.78	1.37	1.07	0.61	1.88
STAGE3	24	0.108|0.107	421|103|6|1289|324|11	530|1624	0.03	0.8547972	1	0.98	0.78	1.23	0.96	0.61	1.51
NHS2	5	0.136|0.100	68|16|4|290|59|6	88|355	1.75	0.1863582	1	0.73	0.46	1.17	0.53	0.21	1.36
PBCS2	21	0.105|0.107	273|68|2|565|143|5	343|713	0.03	0.8672025	1	1.03	0.76	1.39	1.05	0.57	1.93
WHS	14	0.096|0.110	80|19|0|434|122|0	99|556	0.38	0.539559	1	1.18	0.69	2.03	1.40	0.48	4.12
PBCS 1+2	11	0.103|0.113	425|104|3|833|222|9	532|1064	0.67	0.4120617	1	1.11	0.87	1.41	1.23	0.75	2.00

Locus Alleles Chr Location Neighborhood
rs37936 A|G 7q21.11 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	22	0.370|0.367	521|572|187|2078|2378|707	1280|5163	0.05	0.8300158	1	0.99	0.91	1.08	0.98	0.82	1.17
NHS	15	0.369|0.362	77|68|31|333|343|115	176|791	0.06	0.809188	1	0.97	0.77	1.22	0.94	0.60	1.50
STAGE1-2	9	0.374|0.363	233|255|88|1325|1468|438	576|3231	0.54	0.4641672	1	0.95	0.84	1.08	0.91	0.70	1.17
STAGE2	10	0.376|0.363	156|187|57|992|1125|323	400|2440	0.53	0.468207	1	0.94	0.81	1.10	0.89	0.66	1.21
CPSII	2	0.263|0.355	19|21|0|131|139|41	40|311	2.73	0.0986547	1	1.56	0.92	2.64	2.42	0.84	6.98
PLCO	12	0.396|0.372	26|35|11|181|186|69	72|436	0.29	0.5903116	1	0.91	0.64	1.29	0.83	0.41	1.66
WHI	10	0.387|0.362	111|131|46|680|800|213	288|1693	1.35	0.2449846	1	0.90	0.75	1.08	0.80	0.56	1.16
STAGE3	19	0.382|0.374	205|241|81|624|763|219	527|1606	0.24	0.622882	1	0.96	0.84	1.11	0.93	0.70	1.24
NHS2	11	0.422|0.399	33|38|19|128|174|56	90|358	0.30	0.5809346	1	0.91	0.66	1.27	0.83	0.43	1.60
PBCS2	23	0.362|0.360	134|163|41|283|324|88	338|695	0.01	0.9029782	1	0.99	0.81	1.20	0.98	0.66	1.44
WHS	10	0.414|0.375	38|40|21|213|265|75	99|553	1.07	0.3011098	1	0.85	0.63	1.16	0.72	0.39	1.34
PBCS 1+2	8	0.347|0.366	217|239|59|412|471|138	515|1021	1.10	0.2937436	1	1.09	0.93	1.27	1.18	0.86	1.62

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	23	0.162|0.161	925|353|36|3746|1354|170	1314|5270	0.01	0.9026954	1	0.99	0.89	1.11	0.99	0.79	1.24
NHS	17	0.164|0.168	129|48|6|572|199|36	183|807	0.03	0.8611038	1	1.03	0.77	1.37	1.05	0.59	1.89
STAGE1-2	7	0.176|0.161	533|223|26|2613|923|129	782|3665	1.92	0.1653389	1	0.91	0.79	1.04	0.82	0.62	1.09
STAGE2	5	0.179|0.159	404|175|20|2041|724|93	599|2858	2.85	0.0910964	1	0.87	0.74	1.02	0.76	0.55	1.05
CPSII	18	0.183|0.171	29|9|3|220|84|12	41|316	0.07	0.7943898	1	0.93	0.52	1.64	0.86	0.27	2.70
PBCS1	12	0.148|0.156	134|54|1|259|76|17	189|352	0.12	0.7338234	1	1.06	0.76	1.49	1.12	0.57	2.21

PLCO	1	0.230|0.160	41|32|1|318|117|13	74|448	4.50	0.0339221	1	0.63	0.41	0.97	0.40	0.17	0.94
WHI	5	0.186|0.158	200|80|15|1244|447|51	295|1742	2.96	0.0851514	1	0.82	0.66	1.03	0.68	0.44	1.06
STAGE3	6	0.141|0.160	392|130|10|1133|431|41	532|1605	2.17	0.1410471	1	1.16	0.95	1.41	1.34	0.91	1.99
NHS2	23	0.154|0.153	65|24|2|254|88|10	91|352	0.00	0.9885213	1	1.00	0.64	1.56	0.99	0.41	2.42
PBCS2	8	0.136|0.158	254|81|6|496|184|18	341|698	1.61	0.2046553	1	1.18	0.91	1.54	1.40	0.83	2.37
WHS	11	0.145|0.167	73|25|2|383|159|13	100|555	0.60	0.4390887	1	1.18	0.77	1.82	1.40	0.59	3.32
PBCS 1+2	6	0.141|0.157	388|135|7|755|260|35	530|1050	1.46	0.2262763	1	1.14	0.92	1.40	1.29	0.85	1.95

Locus Alleles Chr Location Neighborhood
rs4666451 G|A 2p24.1 19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	het OR	het OR 95% CI	het OR 95% CI	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	24	0.385|0.386	428|533|168|1679|2133|657	1129|4469	0.00	0.9440175	1	1.00	0.91	1.10	1.01	0.83	1.22
STAGE1-2	6	0.361|0.384	245|277|78|1078|1366|416	600|2860	2.33	0.127	1	1.11	0.97	1.26	1.22	0.94	1.59
STAGE2	6	0.361|0.384	245|277|78|1078|1366|416	600|2860	2.33	0.127	1	1.11	0.97	1.26	1.22	0.94	1.59
CPSII	10	0.369|0.413	18|17|7|96|179|41	42|316	0.68	0.4083213	1	1.24	0.75	2.05	1.53	0.56	4.20
PBCS1	16	0.384|0.375	67|99|23|140|161|52	189|353	0.07	0.7876051	1	0.96	0.74	1.25	0.93	0.55	1.57
PLCO	6	0.338|0.394	30|38|6|170|203|75	74|448	1.65	0.1995048	1	1.27	0.88	1.82	1.61	0.78	3.31
WHI	8	0.351|0.378	130|123|42|672|823|248	295|1743	1.62	0.203473	1	1.13	0.94	1.35	1.27	0.88	1.82
STAGE3	8	0.412|0.388	183|257|90|601|769|241	530|1611	1.93	0.1648011	1	0.90	0.79	1.04	0.82	0.62	1.09
NHS2	1	0.439|0.369	33|35|22|134|171|43	90|348	2.92	0.0876378	1	0.75	0.54	1.04	0.56	0.29	1.09
PBCS2	15	0.411|0.398	111|181|50|263|330|118	342|711	0.32	0.5733975	1	0.95	0.79	1.14	0.90	0.62	1.30
WHS	21	0.393|0.388	39|41|18|204|268|80	98|552	0.02	0.8909936	1	0.98	0.72	1.34	0.96	0.51	1.78
PBCS 1+2	15	0.401|0.390	178|279|73|403|489|170	530|1062	0.34	0.560426	1	0.96	0.82	1.11	0.91	0.68	1.24

unadj_re

Locus Alleles Chr Location Neighborhood
rs12608723 A|G 19q13.11 38508973

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	1	0.131|0.121	1001|279|33|4075|1120|78	1313|5273	6.78	0.0091966	1	0.58	0.39	0.88
NHS	6	0.156|0.121	127|55|1|624|169|13	183|806	1.22	0.2702566	1	2.98	0.39	22.95
STAGE1-2	1	0.143|0.121	581|180|22|2831|783|52	783|3666	7.64	0.0057236	1	0.50	0.30	0.82
STAGE2	1	0.139|0.121	454|125|21|2207|614|39	600|2860	13.28	2.68E-04	1	0.38	0.22	0.65
CPSII	2	0.131|0.114	33|7|2|250|60|6	42|316	1.39	0.2382208	1	0.39	0.08	1.98
PBCS1	6	0.135|0.110	142|43|4|278|72|3	189|353	1.55	0.2132974	1	0.40	0.09	1.79
PLCO	1	0.162|0.116	57|10|7|348|96|4	74|448	22.59	2.00E-06	1	0.09	0.02	0.30
WHI	8	0.137|0.126	222|65|8|1331|386|26	295|1743	2.29	0.1302269	1	0.54	0.24	1.21
STAGE3	18	0.115|0.122	420|100|11|1244|340|26	531|1610	0.49	0.4837902	1	0.78	0.38	1.58
NHS2	2	0.132|0.117	71|16|4|272|72|5	91|349	3.16	0.0753427	1	0.32	0.08	1.20
PBCS2	11	0.102|0.119	276|62|4|554|145|12	342|711	0.41	0.5197661	1	1.45	0.46	4.53
WHS	14	0.143|0.128	73|22|3|418|123|9	98|550	0.93	0.3350925	1	0.53	0.14	1.98
PBCS 1+2	22	0.113|0.115	418|104|8|832|214|15	530|1061	0.02	0.8802202	1	0.94	0.39	2.22

Locus Alleles Chr Location Neighborhood
rs9491859 C|A 6q22.33 128106056 C6orf190

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI	hom OR 95% CI_u
STAGE1-3	2	0.357|0.376	534|613|160|2089|2392|784	1307|5265	5.97	0.0145242	1	1.25	1.05	1.50
NHS	16	0.388|0.375	67|90|26|325|359|123	183|807	0.12	0.7239492	1	1.09	0.69	1.72
STAGE1-2	9	0.372|0.376	308|368|107|1462|1649|555	783|3666	1.11	0.2928742	1	1.13	0.90	1.41
STAGE2	7	0.367|0.377	241|278|81|1137|1290|432	600|2859	1.02	0.3130128	1	1.14	0.88	1.47
CPSII	24	0.274|0.351	19|23|0|137|136|43	42|316						
PBCS1	21	0.354|0.364	83|78|28|147|154|51	189|352	0.01	0.9184164	1	0.97	0.59	1.60
PLCO	14	0.378|0.376	29|34|11|170|219|59	74|448	0.16	0.6917663	1	0.87	0.43	1.74
WHI	14	0.385|0.384	110|143|42|683|781|279	295|1743	0.60	0.4403449	1	1.15	0.81	1.63
STAGE3	2	0.335|0.375	226|245|53|628|743|229	524|1600	6.04	0.0139727	1	1.48	1.08	2.04

NHS2	11	0.349|0.366	36|40|10|147|152|53	86|352	0.66	0.4166072	1	1.35	0.66	2.77
PBCS2	2	0.335|0.365	146|160|34|286|322|96	340|704	2.78	0.0953901	1	1.42	0.94	2.15
WHS	5	0.321|0.394	44|45|9|195|269|80	98|544	2.12	0.1453241	1	1.71	0.83	3.52
PBCS 1+2	5	0.342|0.365	229|238|62|432|476|147	529|1055	1.51	0.2195817	1	1.22	0.89	1.67

Locus Alleles Chr Location Neighborhood
rs11249433 T|C 1p11.2 120982136 LOC647121

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	3	0.399|0.439	478|610|215|1655|2556|1017	1303|5228	5.94	0.0147934	1	1.22	1.04	1.44
NHS	15	0.412|0.448	65|84|33|238|411|155	182|804	0.13	0.7221251	1	1.08	0.71	1.63
STAGE1-2	2	0.407|0.441	271|383|126|1124|1831|695	780|3650	3.55	0.0596037	1	1.22	0.99	1.50
STAGE2	2	0.406|0.439	206|299|93|886|1420|540	598|2846	3.86	0.0495164	1	1.27	1.00	1.62
CPSII	1	0.524|0.405	8|24|10|108|159|48	42|315	2.00	0.1572011	1	0.58	0.27	1.25
PBCS1	14	0.392|0.407	67|96|26|124|171|58	189|353	0.67	0.4123345	1	1.23	0.75	2.03
PLCO	19	0.411|0.427	26|34|13|140|232|75	73|447	0.05	0.8277862	1	0.93	0.49	1.78
WHI	2	0.396|0.455	105|145|44|514|858|359	294|1731	5.26	0.0218816	1	1.49	1.06	2.09
STAGE3	4	0.387|0.434	207|227|89|531|725|322	523|1578	2.87	0.0904653	1	1.25	0.97	1.62
NHS2	22	0.450|0.440	29|41|20|114|152|73	90|339	0.02	0.8879734	1	0.96	0.55	1.68
PBCS2	7	0.372|0.410	137|149|51|246|324|121	337|691	0.92	0.3377601	1	1.19	0.83	1.70
WHS	12	0.380|0.461	41|37|18|171|249|128	96|548	0.99	0.3199196	1	1.32	0.76	2.29
PBCS 1+2	4	0.379|0.409	204|245|77|370|495|179	526|1044	1.61	0.2044044	1	1.21	0.90	1.61

Locus Alleles Chr Location Neighborhood
rs2067980 A|G 5p12 45018074

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	4	0.164|0.176	915|363|34|3610|1460|197	1312|5267	4.09	0.0430948	1	1.46	1.01	2.11
NHS	19	0.172|0.179	125|53|5|542|240|24	183|806	0.03	0.8589934	1	1.09	0.41	2.90
STAGE1-2	17	0.173|0.176	538|219|26|2510|1021|135	783|3666	0.24	0.6225412	1	1.11	0.73	1.71
STAGE2	15	0.173|0.175	413|166|21|1968|781|111	600|2860	0.20	0.6577105	1	1.11	0.69	1.79
CPSII	14	0.190|0.171	28|12|2|221|82|13	42|316	0.04	0.843894	1	0.86	0.19	3.94
PBCS1	11	0.251|0.231	107|69|13|208|127|18	189|353	0.72	0.3953013	1	0.73	0.35	1.52
PLCO	9	0.122|0.156	57|16|1|322|112|14	74|448	0.72	0.3975117	1	2.35	0.31	18.18
WHI	5	0.134|0.170	221|69|5|1217|460|66	295|1743	3.28	0.0700099	1	2.28	0.91	5.71
STAGE3	1	0.151|0.176	377|144|8|1100|440|62	529|1602	6.96	0.0083383	1	2.62	1.25	5.51
NHS2	23	0.148|0.162	62|26|0|249|82|15	88|346						
PBCS2	4	0.156|0.188	243|93|7|467|211|27	343|705	2.35	0.1250803	1	1.91	0.82	4.43
WHS	7	0.138|0.170	72|25|1|384|147|20	98|551	1.81	0.1785925	1	3.65	0.48	27.54
PBCS 1+2	16	0.190|0.202	350|162|20|675|337|45	532|1057	0.22	0.6362782	1	1.14	0.67	1.95

Locus Alleles Chr Location Neighborhood
rs3817198 T|C 11p15.5 1865582 LSP1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	5	0.323|0.335	592|587|129|2368|2287|625	1308|5280	4.03	0.0446069	1	1.23	1.00	1.50
NHS	2	0.308|0.328	82|88|12|373|339|95	182|807	4.13	0.0421858	1	1.89	1.01	3.53
STAGE1-2	3	0.335|0.337	336|366|78|1631|1595|436	780|3662	2.28	0.1307875	1	1.22	0.94	1.57
STAGE2	10	0.343|0.339	254|278|66|1258|1256|341	598|2855	0.39	0.5315952	1	1.09	0.83	1.45
CPSII	10	0.381|0.340	16|20|6|139|138|38	42|315	0.17	0.6806829	1	0.82	0.33	2.08
PBCS1	15	0.321|0.326	84|86|17|161|150|39	187|350	0.55	0.4585656	1	1.25	0.69	2.28
PLCO	15	0.365|0.334	28|38|8|190|215|42	74|447	0.15	0.7019153	1	0.86	0.38	1.90
WHI	17	0.346|0.343	126|134|35|768|753|222	295|1743	0.17	0.6764183	1	1.08	0.74	1.59
STAGE3	8	0.308|0.331	255|222|52|734|693|189	529|1616	1.39	0.2382438	1	1.21	0.88	1.68
NHS2	18	0.264|0.331	52|30|9|162|155|41	91|358	0.18	0.6722477	1	1.18	0.55	2.52
PBCS2	21	0.333|0.330	154|148|40|326|301|84	342|711	0.00	0.9554698	1	1.01	0.68	1.51
WHS	1	0.260|0.334	49|44|3|246|237|64	96|547	6.43	0.0111977	1	4.11	1.26	13.35

PBCS 1+2 14 0.327|0.327 239|233|56/490|450|123 528|1063 0.33 0.5662589 1 1.10 0.79 1.54

Locus Alleles Chr Location Neighborhood
rs7716600 C|A 5p12 44910762

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	6	0.221|0.243	800|446|67|3042|1901|333	1313|5276	2.69	0.100724	1	1.25	0.96	1.64
NHS	12	0.246|0.253	108|60|15|451|303|53	183|807	0.62	0.4314343	1	0.79	0.43	1.43
STAGE1-2	7	0.227|0.249	473|265|45|2095|1316|253	783|3664	1.38	0.2395144	1	1.22	0.88	1.69
STAGE2	3	0.221|0.247	365|205|30|1644|1013|200	600|2857	3.19	0.073872	1	1.43	0.96	2.12
CPSII	18	0.226|0.241	26|13|3|186|108|22	42|316	0.00	0.9655414	1	0.97	0.28	3.40
PBCS1	18	0.272|0.272	99|77|13|186|139|26	189|351	0.05	0.8207719	1	1.08	0.54	2.16
PLCO	18	0.169|0.232	52|19|3|261|166|21	74|448	0.06	0.8095283	1	1.16	0.34	4.00
WHI	1	0.200|0.247	188|96|11|1011|600|131	295|1742	5.59	0.018047	1	2.10	1.12	3.93
STAGE3	17	0.212|0.231	327|181|22|948|587|79	530|1614	0.49	0.4831988	1	1.19	0.73	1.93
NHS2	10	0.261|0.232	49|35|6|205|131|16	90|352	0.68	0.4089424	1	0.67	0.25	1.76
PBCS2	3	0.195|0.233	219|111|11|417|254|38	341|709	2.36	0.1247522	1	1.70	0.86	3.37
WHS	20	0.227|0.228	59|35|5|326|202|25	99|553	0.05	0.8167877	1	0.89	0.33	2.38
PBCS 1+2	2	0.223|0.246	318|188|24|602|391|65	530|1058	1.74	0.1869294	1	1.38	0.85	2.23

Locus Alleles Chr Location Neighborhood
rs2391406 T|G 13q33.3 106586873

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	7	0.359|0.367	521|636|152|2088|2463|694	1309|5245	2.44	0.1179233	1	1.16	0.96	1.40
NHS	11	0.358|0.366	72|91|20|323|377|107	183|807	0.72	0.3947659	1	1.25	0.75	2.07
STAGE1-2	12	0.355|0.363	314|380|87|1453|1759|451	781|3663	0.83	0.3616764	1	1.12	0.88	1.43
STAGE2	11	0.354|0.362	242|289|67|1130|1382|344	598|2856	0.33	0.5636358	1	1.09	0.82	1.43
CPSII	19	0.402|0.339	12|25|4|132|150|31	41|313	0.00	0.9761748	1	1.02	0.34	3.04
PBCS1	7	0.362|0.375	78|84|26|125|190|37	188|352	1.31	0.2524888	1	0.73	0.43	1.25
PLCO	6	0.345|0.360	29|39|6|180|213|55	74|448	1.07	0.3010777	1	1.59	0.66	3.83
WHI	10	0.344|0.365	123|141|31|693|829|221	295|1743	1.10	0.2948808	1	1.24	0.83	1.84
STAGE3	3	0.365|0.376	207|255|65|635|705|243	527|1583	2.89	0.0893461	1	1.29	0.96	1.73
NHS2	4	0.348|0.402	37|42|10|129|162|60	89|351	1.82	0.1771703	1	1.63	0.80	3.33
PBCS2	8	0.382|0.381	126|171|45|275|321|108	342|704	0.88	0.3486356	1	1.20	0.82	1.74
WHS	11	0.323|0.352	44|42|10|231|222|75	96|528	0.99	0.3196092	1	1.42	0.71	2.86
PBCS 1+2	20	0.375|0.379	204|256|71|400|510|145	531|1055	0.04	0.8380202	1	1.03	0.76	1.40

Locus Alleles Chr Location Neighborhood
rs998592 G|A 16p13.13 11107179 CLEC16A

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	8	0.405|0.418	452|660|202|1751|2638|885	1314|5274	1.51	0.2187395	1	1.11	0.94	1.31
NHS	17	0.434|0.429	54|99|30|253|415|139	183|807	0.07	0.7873892	1	1.06	0.69	1.63
STAGE1-2	4	0.402|0.425	270|396|117|1181|1857|629	783|3667	2.26	0.1328082	1	1.18	0.95	1.46
STAGE2	4	0.393|0.423	216|297|87|928|1442|490	600|2860	2.47	0.11573	1	1.22	0.95	1.56
CPSII	9	0.369|0.416	17|19|6|107|155|54	42|316	0.21	0.6477343	1	1.24	0.50	3.08
PBCS1	17	0.368|0.368	74|91|24|141|164|48	189|353	0.09	0.7687734	1	1.08	0.64	1.83
PLCO	8	0.426|0.393	25|35|14|162|220|66	74|448	0.86	0.3543321	1	0.74	0.39	1.40
WHI	6	0.403|0.444	100|152|43|518|903|322	295|1743	2.61	0.1063954	1	1.33	0.94	1.88
STAGE3	24	0.409|0.402	182|265|85|570|782|256	532|1608	0.00	0.9751398	1	1.00	0.76	1.30
NHS2	14	0.483|0.423	22|47|19|119|167|65	88|351	0.43	0.5123624	1	0.83	0.46	1.47
PBCS2	22	0.397|0.386	122|171|51|266|333|105	344|704	0.00	0.969615	1	1.01	0.70	1.45
WHS	22	0.385|0.410	38|47|15|185|282|86	100|553	0.02	0.8883704	1	1.04	0.58	1.89
PBCS 1+2	19	0.386|0.380	196|261|75|407|496|153	532|1056	0.04	0.8339265	1	1.03	0.77	1.39

Locus Alleles Chr Location Neighborhood

rs11077820	T|C	17q25.1	71966263	UBE2O,AANAT										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u				
STAGE1-3	9	0.359|0.367	543|598|173|2153|2342|760	1314|5255	1.45	0.2285284	1	1.12	0.93	1.33				
NHS	18	0.374|0.374	73|83|27|329|353|125	183|807	0.06	0.8032534	1	1.06	0.67	1.66				
STAGE1-2	5	0.361|0.368	318|364|101|1502|1623|538	783|3663	1.68	0.1954078	1	1.16	0.93	1.46				
STAGE2	5	0.357|0.367	245|281|74|1173|1270|413	600|2856	1.85	0.1733419	1	1.20	0.92	1.57				
CPSII	12	0.357|0.359	17|20|5|131|143|42	42|316	0.06	0.8026221	1	1.13	0.42	3.05				
PBCS1	10	0.381|0.334	74|86|29|160|150|43	189|353	1.07	0.3012162	1	0.77	0.46	1.27				
PLCO	20	0.358|0.354	30|35|9|188|200|58	74|446	0.04	0.8412475	1	1.08	0.51	2.28				
WHI	3	0.342|0.378	124|140|31|694|777|270	295|1741	5.01	0.0252669	1	1.56	1.05	2.32				
STAGE3	21	0.356|0.365	225|234|72|651|720|222	531|1593	0.05	0.8276979	1	1.03	0.78	1.37				
NHS2	17	0.337|0.373	43|32|14|136|163|48	89|347	0.21	0.6474946	1	0.86	0.45	1.64				
PBCS2	20	0.366|0.382	141|153|49|269|335|102	343|706	0.00	0.9441424	1	1.01	0.70	1.46				
WHS	10	0.338|0.339	41|49|9|246|222|72	99|540	1.36	0.2434833	1	1.54	0.74	3.19				
PBCS 1+2	15	0.371|0.366	215|239|78|429|484|145	532|1058	0.27	0.6042597	1	0.92	0.69	1.24				
Locus	Alleles	Chr	Location	Neighborhood										
rs7936636	C|T	11p11.2		44397546										
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u				
STAGE1-3	10	0.234|0.249	773|464|75|2989|1934|347	1312|5270	1.32	0.2507822	1	1.16	0.90	1.50				
NHS	3	0.219|0.247	110|66|7|470|276|61	183|807	3.25	0.071384	1	2.06	0.92	4.57				
STAGE1-2	10	0.226|0.245	474|264|45|2117|1303|246	783|3666	0.98	0.3224038	1	1.18	0.85	1.64				
STAGE2	21	0.228|0.244	364|198|38|1647|1027|185	600|2859	0.02	0.9008035	1	1.02	0.71	1.47				
CPSII	6	0.274|0.222	23|15|4|197|98|21	42|316	0.47	0.491696	1	0.68	0.22	2.08				
PBCS1	19	0.228|0.229	115|62|12|212|119|21	189|352	0.03	0.8590356	1	0.94	0.45	1.95				
PLCO	11	0.243|0.253	45|22|7|254|161|33	74|448	0.39	0.5305468	1	0.76	0.32	1.79				
WHI	11	0.219|0.249	181|99|15|984|649|110	295|1743	0.66	0.4169429	1	1.26	0.72	2.19				
STAGE3	19	0.246|0.259	299|200|30|872|631|100	529|1603	0.22	0.6363847	1	1.11	0.73	1.69				
NHS2	12	0.233|0.241	51|33|4|204|123|23	88|350	0.50	0.4799467	1	1.48	0.50	4.39				
PBCS2	16	0.265|0.268	185|133|24|372|282|47	342|701	0.04	0.8506351	1	0.95	0.57	1.59				
WHS	6	0.192|0.259	63|34|2|296|226|30	99|552	2.09	0.1478725	1	2.79	0.66	11.86				
PBCS 1+2	21	0.251|0.256	300|195|36|584|401|69	531|1054	0.03	0.8601604	1	0.96	0.63	1.46				
Locus	Alleles	Chr	Location	Neighborhood										
rs17740709	A|G	12q21.31		81947471	TMTC2									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u				
STAGE1-3	11	0.209|0.219	828|417|65|3251|1707|300	1310|5258	1.11	0.2930975	1	1.16	0.88	1.53				
NHS	1	0.180|0.222	121|58|4|502|251|54	183|807	5.49	0.0191173	1	3.21	1.15	8.98				
STAGE1-2	15	0.210|0.216	494|249|40|2293|1165|209	783|3667	0.43	0.5136986	1	1.12	0.79	1.59				
STAGE2	12	0.219|0.214	373|191|36|1791|914|155	600|2860	0.32	0.5713954	1	0.90	0.62	1.30				
CPSII	5	0.131|0.199	32|9|1|205|96|15	42|316	0.49	0.4857052	1	2.04	0.26	15.88				
PBCS1	20	0.254|0.245	106|70|13|203|127|23	189|353	0.03	0.8716124	1	0.94	0.47	1.91				
PLCO	13	0.209|0.218	48|21|5|277|147|24	74|448	0.24	0.6263005	1	0.78	0.29	2.12				
WHI	19	0.212|0.209	187|91|17|1106|544|93	295|1743	0.09	0.7640171	1	0.92	0.54	1.57				
STAGE3	15	0.207|0.228	334|168|25|958|544|91	527|1593	0.72	0.3966789	1	1.22	0.77	1.92				
NHS2	16	0.206|0.211	55|25|5|214|112|16	85|342	0.21	0.6459501	1	0.79	0.28	2.21				
PBCS2	5	0.212|0.254	215|109|18|398|260|50	342|708	1.23	0.2669774	1	1.37	0.79	2.38				
WHS	9	0.190|0.204	64|34|2|346|172|25	100|543	1.42	0.2328239	1	2.36	0.55	10.15				
PBCS 1+2	11	0.227|0.251	321|179|31|601|385|73	531|1059	0.64	0.4221786	1	1.19	0.77	1.84				
Locus	Alleles	Chr	Location	Neighborhood										
rs12622050	G|A	2q11.2		100945886	NPAS2									
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u				

STAGE1-3	12	0.223|0.208	795|444|70|3307|1695|246	1309|5248	1.00	0.3184759	1	0.87	0.66	1.14
NHS	9	0.191|0.189	122|52|9|529|251|27	183|807	1.05	0.3049532	1	0.67	0.31	1.45
STAGE1-2	22	0.200|0.200	504|243|35|2361|1141|162	782|3664	0.00	0.9465864	1	0.99	0.68	1.43
STAGE2	16	0.203|0.203	382|191|26|1832|890|135	599|2857	0.16	0.684622	1	1.09	0.71	1.68
CPSII	21	0.146|0.213	29|12|0|201|94|20	41|315						
PBCS1	5	0.222|0.249	114|66|9|204|121|27	189|352	1.67	0.1956179	1	1.66	0.76	3.61
PLCO	17	0.203|0.195	47|24|3|288|145|15	74|448	0.10	0.7578696	1	0.82	0.23	2.90
WHI	16	0.198|0.194	192|89|14|1139|530|73	295|1742	0.19	0.6627648	1	0.88	0.49	1.58
STAGE3	7	0.257|0.227	291|201|35|947|555|83	527|1585	1.48	0.2238399	1	0.78	0.52	1.17
NHS2	19	0.206|0.215	53|29|3|210|117|15	85|342	0.12	0.7250508	1	1.25	0.35	4.43
PBCS2	12	0.278|0.245	177|141|25|402|254|45	343|701	0.28	0.5978974	1	0.87	0.53	1.45
WHS	8	0.227|0.212	61|31|7|335|184|23	99|542	1.50	0.2207027	1	0.58	0.24	1.40
PBCS 1+2	17	0.258|0.247	291|207|34|605|374|73	532|1052	0.17	0.6813879	1	1.09	0.72	1.66

Locus Alleles Chr Location Neighborhood
rs7121523 G|A 11p15.4 7556781 PPFIBP2

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	13	0.162|0.161	925|353|36|3746|1354|170	1314|5270	0.82	0.3652097	1	1.18	0.82	1.70
NHS	13	0.164|0.168	129|48|6|572|199|36	183|807	0.51	0.473729	1	1.38	0.57	3.32
STAGE1-2	19	0.176|0.161	533|223|26|2613|923|129	782|3665	0.07	0.7872606	1	1.06	0.69	1.63
STAGE2	22	0.179|0.159	404|175|20|2041|724|93	599|2858	0.01	0.9154093	1	0.97	0.60	1.59
CPSII	3	0.183|0.171	29|9|3|220|84|12	41|316	1.12	0.2905896	1	0.50	0.14	1.85
PBCS1	1	0.148|0.156	134|54|1|259|76|17	189|352	7.07	0.007836	1	9.54	1.26	72.26
PLCO	10	0.230|0.160	41|32|1|318|117|13	74|448	0.58	0.4443909	1	2.18	0.28	16.93
WHI	4	0.186|0.158	200|80|15|1244|447|51	295|1742	3.74	0.0529904	1	0.56	0.31	1.02
STAGE3	14	0.141|0.160	392|130|10|1133|431|41	532|1605	0.78	0.3768196	1	1.37	0.68	2.75
NHS2	20	0.154|0.153	65|24|2|254|88|10	91|352	0.11	0.7362234	1	1.30	0.28	6.05
PBCS2	9	0.136|0.158	254|81|6|496|184|18	341|698	0.68	0.4091075	1	1.48	0.58	3.76
WHS	21	0.145|0.167	73|25|2|383|159|13	100|555	0.04	0.8331488	1	1.18	0.26	5.29
PBCS 1+2	1	0.141|0.157	388|135|7|755|260|35	530|1050	5.51	0.0188709	1	2.58	1.14	5.84

Locus Alleles Chr Location Neighborhood
rs10941679 A|G 5p12 44742255

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	14	0.262|0.282	383|276|47|991|791|148	706|1930	0.77	0.3797438	1	1.16	0.83	1.64
STAGE3	6	0.245|0.277	298|198|30|830|650|118	526|1598	1.72	0.1890937	1	1.32	0.87	1.99
NHS2	21	0.262|0.283	49|29|8|181|137|30	86|348	0.04	0.8412763	1	0.92	0.41	2.08
PBCS2	1	0.235|0.288	196|130|15|350|308|50	341|708	2.81	0.0937558	1	1.65	0.91	2.99
WHS	23	0.268|0.259	53|39|7|299|205|38	99|542	0.00	0.9829612	1	0.99	0.43	2.29
PBCS 1+2	10	0.261|0.293	281|208|32|511|449|80	521|1040	1.25	0.2630611	1	1.27	0.83	1.95

Locus Alleles Chr Location Neighborhood
rs10850145 C|T 12q24.13 112428512

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	15	0.108|0.109	1047|249|17|4185|1048|54	1313|5287	0.74	0.3901039	1	0.79	0.45	1.36
NHS	4	0.117|0.108	145|33|5|642|155|10	183|807	2.23	0.1354767	1	0.45	0.15	1.32
STAGE1-2	16	0.107|0.111	626|146|11|2898|724|43	783|3665	0.29	0.5911162	1	0.83	0.43	1.62
STAGE2	19	0.104|0.111	481|113|6|2256|569|33	600|2858	0.11	0.7443222	1	1.16	0.48	2.77
CPSII	8	0.071|0.111	37|4|1|250|62|4	42|316	0.33	0.5628733	1	0.53	0.06	4.82
PBCS1	16	0.101|0.123	152|36|1|270|79|4	189|353	0.49	0.4833068	1	2.15	0.24	19.42
PLCO	22	0.122|0.106	56|18|0|357|87|4	74|448						
WHI	21	0.107|0.110	236|55|4|1379|341|21	295|1741	0.05	0.8290362	1	0.89	0.30	2.61
STAGE3	10	0.108|0.107	421|103|6|1289|324|11	530|1624	1.06	0.3042918	1	0.60	0.22	1.62
NHS2	3	0.136|0.100	68|16|4|290|59|6	88|355	2.61	0.1064761	1	0.36	0.10	1.31

PBCS2	15	0.105|0.107	273|68|2|565|143|5	343|713	0.05	0.8246128	1	1.20	0.23	6.24
WHS	24	0.096|0.110	80|19|0|434|122|0	99|556	-		1	1.00	1.00	1.00
PBCS 1+2	13	0.103|0.113	425|104|3|833|222|9	532|1064	0.38	0.538761	1	1.50	0.41	5.58

Locus rs37936 Alleles A|G Chr 7q21.11 Location Neighborhood 79806994

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	16	0.370|0.367	521|572|187|2078|2378|707	1280|5163	0.72	0.3961964	1	0.93	0.78	1.10
NHS	8	0.369|0.362	77|68|31|333|343|115	176|791	1.06	0.3027554	1	0.80	0.51	1.23
STAGE1-2	8	0.374|0.363	233|255|88|1325|1468|438	576|3231	1.22	0.2699911	1	0.87	0.68	1.11
STAGE2	13	0.376|0.363	156|187|57|992|1125|323	400|2440	0.30	0.5814769	1	0.92	0.68	1.24
CPSII	23	0.263|0.355	19|21|0|131|139|41	40|311						
PLCO	21	0.396|0.372	26|35|11|181|186|69	72|436	0.01	0.9058733	1	1.04	0.52	2.08
WHI	7	0.387|0.362	111|131|46|680|800|213	288|1693	2.49	0.1145473	1	0.76	0.54	1.07
STAGE3	12	0.382|0.374	205|241|81|624|763|219	527|1606	0.99	0.3205482	1	0.87	0.66	1.15
NHS2	6	0.422|0.399	33|38|19|128|174|56	90|358	1.54	0.2141569	1	0.69	0.39	1.24
PBCS2	14	0.362|0.360	134|163|41|283|324|88	338|695	0.06	0.808362	1	1.05	0.71	1.56
WHS	2	0.414|0.375	38|40|21|213|265|75	99|553	3.91	0.0479025	1	0.58	0.34	1.00
PBCS 1+2	9	0.347|0.366	217|239|59|412|471|138	515|1021	1.30	0.2543744	1	1.21	0.87	1.67

Locus rs4415084 Alleles C|T Chr 5p12 Location Neighborhood 44698272

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	17	0.423|0.430	439|636|236|1736|2512|998	1311|5246	0.72	0.3968765	1	1.07	0.91	1.25
NHS	5	0.448|0.437	57|87|38|240|421|139	182|800	1.23	0.2669903	1	0.80	0.53	1.19
STAGE1-2	21	0.424|0.428	267|367|148|1209|1769|681	782|3659	0.04	0.8378262	1	0.98	0.80	1.19
STAGE2	18	0.417|0.425	210|280|110|969|1348|542	600|2859	0.13	0.7222166	1	1.04	0.83	1.31
CPSII	17	0.393|0.389	16|19|7|121|144|51	42|316	0.01	0.9305476	1	0.96	0.41	2.29
PBCS1	8	0.476|0.463	55|88|46|97|185|71	189|353	1.30	0.2545223	1	0.78	0.51	1.19
PLCO	2	0.338|0.407	28|42|4|163|205|80	74|448	7.29	0.0069236	1	3.80	1.35	10.72
WHI	15	0.402|0.429	111|131|53|588|814|340	295|1742	0.39	0.5322454	1	1.11	0.80	1.52
STAGE3	5	0.421|0.434	173|269|89|528|747|319	531|1594	2.71	0.0994217	1	1.24	0.96	1.61
NHS2	5	0.402|0.447	32|46|14|111|161|74	92|346	1.72	0.1892782	1	1.52	0.81	2.83
PBCS2	6	0.413|0.440	117|165|58|226|346|140	340|712	1.02	0.3122037	1	1.19	0.85	1.67
WHS	17	0.465|0.420	24|58|17|191|240|105	99|536	0.31	0.5747869	1	1.18	0.67	2.07
PBCS 1+2	23	0.435|0.447	171|253|103|322|527|209	527|1058	0.01	0.9212189	1	1.01	0.78	1.32

Locus rs999737 Alleles C|T Chr 14q24.1 Location Neighborhood 68104435 RAD51L1

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	18	0.229|0.216	773|472|64|3232|1803|234	1309|5269	0.49	0.4853092	1	0.90	0.68	1.20
NHS	7	0.239|0.209	105|67|10|499|278|30	182|807	1.21	0.2716517	1	0.66	0.32	1.38
STAGE1-2	14	0.224|0.211	469|275|38|2274|1237|156	782|3667	0.57	0.4518392	1	0.87	0.60	1.25
STAGE2	20	0.220|0.212	364|208|28|1775|959|126	600|2860	0.08	0.777995	1	0.94	0.62	1.43
CPSII	11	0.214|0.223	27|12|3|193|105|18	42|316	0.14	0.7077769	1	0.79	0.22	2.79
PBCS1	2	0.228|0.203	115|62|12|219|125|9	189|353	4.77	0.0289334	1	0.39	0.16	0.93
PLCO	16	0.189|0.225	48|24|2|262|170|16	74|448	0.14	0.7043753	1	1.33	0.30	5.92
WHI	13	0.224|0.208	174|110|11|1101|559|83	295|1743	0.61	0.4340223	1	1.29	0.68	2.45
STAGE3	23	0.236|0.225	305|197|26|959|567|78	528|1604	0.00	0.9546963	1	0.99	0.63	1.56
NHS2	8	0.208|0.234	55|31|3|205|120|21	89|346	0.99	0.3200004	1	1.85	0.54	6.36
PBCS2	19	0.234|0.224	198|125|17|422|248|34	340|704	0.01	0.9046922	1	0.96	0.53	1.75
WHS	16	0.268|0.221	52|41|6|332|199|23	99|554	0.72	0.3957379	1	0.67	0.27	1.69
PBCS 1+2	3	0.232|0.217	312|187|29|640|372|43	528|1055	1.63	0.2021839	1	0.73	0.45	1.19

Locus	Alleles	Chr	Location	Neighborhood							
rs3134615	G|T	1p34.2		40134653 TRIT1,MYCL1							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	19	0.249|0.243	734|499|77|3003|1970|297	1310|5270	0.11	0.7347468	1	0.96	0.74	1.24	
NHS	14	0.260|0.262	101|69|13|433|325|49	183|807	0.27	0.6029241	1	0.85	0.45	1.59	
STAGE1-2	20	0.255|0.247	428|310|45|2072|1377|218	783|3667	0.05	0.8312862	1	1.04	0.74	1.44	
STAGE2	14	0.254|0.243	327|241|32|1639|1052|169	600|2860	0.30	0.5835917	1	1.11	0.76	1.64	
CPSII	15	0.250|0.222	23|17|2|193|106|17	42|316	0.03	0.866735	1	1.14	0.25	5.11	
PBCS1	4	0.235|0.231	106|77|6|213|117|23	189|353	2.71	0.0995267	1	2.13	0.85	5.32	
PLCO	12	0.264|0.253	38|33|3|247|175|26	74|448	0.37	0.5427395	1	1.46	0.43	4.95	
WHI	12	0.264|0.247	160|114|21|986|654|103	295|1743	0.65	0.4216586	1	0.82	0.50	1.33	
STAGE3	13	0.241|0.235	306|190|32|931|595|80	528|1606	0.93	0.3346599	1	0.81	0.53	1.24	
NHS2	9	0.230|0.244	54|26|7|196|131|19	87|346	0.80	0.3699434	1	0.66	0.27	1.63	
PBCS2	13	0.230|0.225	202|124|17|427|240|39	343|706	0.15	0.701148	1	1.12	0.62	2.01	
WHS	3	0.286|0.242	50|40|8|308|224|22	98|554	3.33	0.0678683	1	0.47	0.20	1.08	
PBCS 1+2	7	0.232|0.226	308|200|23|640|355|61	531|1056	1.47	0.2250496	1	1.35	0.83	2.21	

Locus	Alleles	Chr	Location	Neighborhood							
rs1274466	T|C	10p11.21		34510210 PARD3							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	20	0.436|0.433	411|654|244|1706|2563|1004	1309|5273	0.11	0.7409293	1	1.03	0.88	1.20	
NHS	10	0.432|0.436	55|98|30|261|388|158	183|807	0.98	0.321259	1	1.24	0.81	1.91	
STAGE1-2	6	0.427|0.429	248|402|133|1213|1761|692	783|3666	1.53	0.2166931	1	1.14	0.93	1.39	
STAGE2	9	0.425|0.427	193|304|103|952|1373|534	600|2859	0.75	0.3852741	1	1.11	0.88	1.40	
CPSII	13	0.429|0.440	15|18|9|101|152|63	42|316	0.05	0.8207229	1	0.91	0.42	2.01	
PBCS1	12	0.439|0.457	57|98|34|104|174|74	189|352	0.71	0.4000596	1	1.21	0.77	1.91	
PLCO	5	0.453|0.391	22|37|15|167|212|69	74|448	1.11	0.2910312	1	0.72	0.38	1.33	
WHI	9	0.408|0.428	99|151|45|580|835|328	295|1743	2.14	0.1432089	1	1.29	0.92	1.81	
STAGE3	16	0.450|0.444	164|252|111|493|802|313	527|1608	0.64	0.4250174	1	0.91	0.71	1.16	
NHS2	7	0.500|0.429	21|47|21|114|168|65	89|347	1.06	0.3036413	1	0.75	0.43	1.30	
PBCS2	18	0.432|0.451	115|156|69|211|357|141	340|709	0.02	0.8774747	1	0.98	0.71	1.35	
WHS	18	0.464|0.445	28|49|21|168|277|107	98|552	0.22	0.6390572	1	0.88	0.52	1.49	
PBCS 1+2	18	0.436|0.452	171|254|103|315|531|214	528|1060	0.10	0.7490488	1	1.04	0.80	1.36	

Locus	Alleles	Chr	Location	Neighborhood							
rs17570439	T|C	1p34.2		40096797 TRIT1							
SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u	
STAGE1-3	21	0.231|0.224	769|476|65|3177|1825|269	1310|5271	0.04	0.8345139	1	1.03	0.78	1.36	
NHS	20	0.238|0.245	107|65|11|457|304|46	183|807	0.03	0.8705474	1	0.95	0.48	1.86	
STAGE1-2	13	0.234|0.228	453|292|37|2196|1270|201	782|3667	0.72	0.397531	1	1.17	0.82	1.67	
STAGE2	6	0.233|0.223	346|227|26|1739|966|155	599|2860	1.16	0.2808833	1	1.26	0.83	1.93	
CPSII	16	0.262|0.201	22|18|2|203|99|14	42|316	0.01	0.9221779	1	0.93	0.20	4.23	
PBCS1	3	0.214|0.215	113|71|5|223|108|22	189|353	3.35	0.0673839	1	2.45	0.91	6.57	
PLCO	7	0.243|0.238	40|32|2|259|165|24	74|448	0.95	0.3308621	1	2.04	0.47	8.81	
WHI	20	0.238|0.225	171|106|17|1054|594|95	294|1743	0.05	0.8173391	1	0.94	0.55	1.60	
STAGE3	11	0.227|0.215	316|184|28|981|555|68	528|1604	1.05	0.306639	1	0.79	0.50	1.24	
NHS2	13	0.236|0.232	53|30|6|201|125|17	89|343	0.45	0.5038446	1	0.72	0.28	1.89	
PBCS2	17	0.215|0.210	211|115|16|448|228|35	342|711	0.03	0.8627179	1	1.05	0.58	1.93	
WHS	4	0.263|0.213	52|39|6|332|202|16	97|550	2.69	0.1006669	1	0.45	0.17	1.19	
PBCS 1+2	6	0.215|0.211	324|186|21|671|336|57	531|1064	1.50	0.2210262	1	1.37	0.82	2.29	

Locus	Alleles	Chr	Location	Neighborhood
rs4666451	G|A	2p24.1		19150424

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	22	0.385|0.386	428|533|168|1679|2133|657	1129|4469	0.02	0.8794025	1	0.99	0.82	1.18
STAGE1-2	11	0.361|0.384	245|277|78|1078|1366|416	600|2860	0.97	0.3252171	1	1.14	0.88	1.48
STAGE2	8	0.361|0.384	245|277|78|1078|1366|416	600|2860	0.97	0.3252171	1	1.14	0.88	1.48
CPSII	7	0.369|0.413	18|17|7|96|179|41	42|316	0.44	0.5094254	1	0.75	0.31	1.79
PBCS1	13	0.384|0.375	67|99|23|140|161|52	189|353	0.68	0.4104708	1	1.25	0.74	2.11
PLCO	3	0.338|0.394	30|38|6|170|203|75	74|448	3.61	0.0574133	1	2.28	0.95	5.44
WHI	22	0.351|0.378	130|123|42|672|823|248	295|1743	0.00	0.9967546	1	1.00	0.70	1.42
STAGE3	9	0.412|0.388	183|257|90|601|769|241	530|1611	1.25	0.2641516	1	0.86	0.66	1.12
NHS2	1	0.439|0.369	33|35|22|134|171|43	90|348	8.27	0.0040354	1	0.44	0.24	0.78
PBCS2	10	0.411|0.398	111|181|50|263|330|118	342|711	0.67	0.4120977	1	1.16	0.81	1.66
WHS	13	0.393|0.388	39|41|18|204|268|80	98|552	0.98	0.3232353	1	0.75	0.43	1.32
PBCS 1+2	8	0.401|0.390	178|279|73|403|489|170	530|1062	1.36	0.2428145	1	1.19	0.89	1.60

Locus Alleles Chr Location Neighborhood
rs2303659 G|A 11q24.3 129326474 PRDM10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	23	0.024|0.026	1251|59|2|4997|257|9	1312|5263	0.02	0.8829571	1	1.12	0.24	5.20
NHS	22	0.022|0.026	175|8|0|765|42|0	183|807	-		1 1	1.00	1.00	1.00
STAGE1-2	23	0.022|0.025	749|34|0|3487|178|2	783|3667						
STAGE2	23	0.022|0.024	574|26|0|2722|136|2	600|2860						
CPSII	22	0.000|0.019	42|0|0|305|10|1	42|316						
PBCS1	22	0.021|0.024	181|8|0|336|17|0	189|353	-		1 1	1.00	1.00	1.00
PLCO	24	0.020|0.026	71|3|0|425|23|0	74|448	-		1 1	1.00	1.00	1.00
WHI	24	0.025|0.025	280|15|0|1656|86|1	295|1743						
STAGE3	22	0.027|0.029	502|25|2|1511|79|7	529|1597	0.03	0.8532405	1	1.16	0.24	5.60
NHS2	24	0.000|0.030	88|0|0|334|15|3	88|352						
PBCS2	24	0.033|0.028	322|21|1|669|40|0	344|709						
WHS	19	0.031|0.030	92|4|1|508|24|4	97|536	0.08	0.7707244	1	0.72	0.08	6.53
PBCS 1+2	24	0.029|0.027	503|29|1|1004|57|0	533|1061						

Locus Alleles Chr Location Neighborhood
rs724244 C|T 3p24.1 27217157 NEK10

SUBSET	Rank	MAF	Geno Counts	Subjects	score X2	score p-value	df	hom OR	hom OR 95% CI_l	hom OR 95% CI_u
STAGE1-3	24	0.267|0.274	609|432|85|2365|1767|340	1126|4472	0.00	0.9512282	1	1.01	0.79	1.29
STAGE1-2	18	0.277|0.275	316|234|49|1508|1131|220	599|2859	0.16	0.6867865	1	0.94	0.68	1.29
STAGE2	17	0.277|0.275	316|234|49|1508|1131|220	599|2859	0.16	0.6867865	1	0.94	0.68	1.29
CPSII	4	0.310|0.266	21|16|5|173|118|25	42|316	0.77	0.3802102	1	0.64	0.23	1.76
PBCS1	9	0.250|0.265	106|70|12|198|123|32	188|353	1.18	0.2771272	1	1.46	0.73	2.91
PLCO	4	0.257|0.271	44|22|8|235|182|30	74|447	1.58	0.2090594	1	0.59	0.26	1.35
WHI	18	0.295|0.279	145|126|24|902|708|133	295|1743	0.09	0.7635183	1	0.93	0.59	1.47
STAGE3	20	0.257|0.272	294|198|37|857|636|120	529|1613	0.12	0.7331334	1	1.07	0.73	1.57
NHS2	15	0.278|0.286	48|31|9|179|142|29	88|350	0.33	0.5629826	1	0.79	0.36	1.74
PBCS2	23	0.244|0.265	198|121|23|381|280|48	342|709	0.00	0.9782962	1	1.01	0.60	1.69
WHS	15	0.283|0.271	48|46|5|297|214|43	99|554	0.91	0.3410305	1	1.58	0.61	4.10
PBCS 1+2	12	0.245|0.265	303|191|34|579|403|80	528|1062	0.63	0.4260184	1	1.18	0.78	1.79