

ene_symbol	exp_C3NC_1	exp_C3NC_2	exp_C3NC_3	exp_CM5_1	exp_CM5_2	exp_CM5_3	exp_TM3NC_1	exp_TM3NC_2	exp_TM3NC_3	exp_TMM5_1	exp_TMM5_2	exp_TMM5_3
Hrh1	0.05	0.05	0.09	0	0.03	0.12	0	0	0	0	0	0.02
Ephx2	0	0	0	0	0	0	0.06	0.03	0.06	0	0.03	0.09
Ptgdr	0	0	0	0	0	0	0.21	0.15	0.02	0	0.02	0.04
Fnta	58.88	55.47	47.16	57.1	57.16	57.69	52.7	55.01	59.9	64.89	63.8	60.31
Aph1b	5.35	4.98	5.91	4.94	4.74	6.44	1.89	1.98	4.02	4.45	4	3.94
Ptger2	0	0	0	0	0	0	0.08	0.06	0	0	0	0.03
Adrb2	0.69	0.34	0.74	0.56	0.73	0.69	0.47	0.43	0.21	0.28	0.41	0.46
Vdr	19.23	20.99	18.34	20.45	21.36	17.33	0.25	0.37	0.38	0.58	0.64	0.49
Pla2g1b	0.14	0	0.3	0	0	0	0	0	0	0	0	0
Mmp2	99.26	97.27	105.55	85.05	86.15	84.18	104.59	103.72	137.4	136.05	141.55	111.79
Btk	0.02	0	0	0	0	0	0.02	0	0.02	0	0	0
Ptger4	0.67	0.63	0.59	1.16	1.17	0.73	1.3	1.28	3.97	4.17	3.99	3.58
Pde4b	7.95	7.85	11.57	9.73	9.46	11.92	9.64	9.48	7.75	8.58	9.51	8.41
Pde8b	0.21	0.16	0.24	0.1	0.16	0.2	0.32	0.34	0.28	0.36	0.32	0.2
Lgmn	159.68	160	191.01	174.22	175.33	193.77	68.36	67.66	62.35	68.31	72.8	67.42
Clk1	19.85	19.5	22.58	23.66	24.54	26.17	26.23	26.49	15.29	23.51	23.77	17.7
Plk4	29.59	30.3	31.67	28.17	28.54	31.16	23.79	24.39	31.81	36.75	35.26	34.6
Bdkrb2	0.39	0.39	0.27	0.4	0.5	0.66	17.04	17.3	20.3	20.41	21.21	17.04
Lck	0.57	0.51	1.24	0.99	0.77	1.73	3.11	2.89	1.02	0.96	0.97	0.65
Dpp4	0.09	0.11	0.15	0.06	0.07	0.14	0.08	0.13	0.02	0.04	0.02	0.04
Abcc1	12.29	13.99	15.57	11.65	11.87	14.39	27.62	28.3	27.53	26.63	27.17	28.14
Ccr3	0	0	0	0	0.03	0	0	0	0	0	0	0
Bmp1	24.94	25.48	27.6	26.17	26.54	26.84	12.17	13.19	17.68	19.15	20.41	16.34
Scn9a	0	0	0	0	0	0	0	0	0	0	0	0
Fbp1	0.04	0	0	0	0	0	0	0	0	0	0	0
Mapkapk2	46.74	45.06	43.08	45.8	44.68	47.08	54.5	55.36	75.02	78.65	82.32	70.81
Ctsg	0.07	0	0	0	0	0	0	0	0	0	0	0
Akt1	133.59	129.45	91.12	126.36	130.98	97.91	61.58	60.06	117.38	115.18	114.32	125.39
Ptafr	0	0	0.03	0	0	0	0.02	0	0	0	0	0
Mapk11	6.17	6.21	6.77	6.78	6.51	7.7	8.47	8.24	8.28	8	8.96	8.1
Nos2	0.11	0.09	0.2	0.04	0.1	0.08	14.96	13.53	12.54	12.8	12.8	8.11
Cdk5	14.26	13.96	21.46	14.92	14.29	18.46	13.53	13.18	16.72	15	15.94	15.23
Psmb5	128.36	123.79	118.12	124.43	118.41	116.35	143.08	127.39	123.16	121.58	131.71	129.7
Hdac6	12.83	12.8	12.77	12.64	14.01	12.69	7.19	6.72	11.15	10.85	10.61	10.89
Kdr	0.39	0.62	0.67	0.57	0.52	0.7	0.08	0.12	0.03	0.07	0	0.03

Kcnh2	11.42	12.34	15.54	11.93	11.6	11.05	4.1	4.27	6.44	5.32	6.01	6.1
Hcrtr2	0	0	0	0	0	0	0.02	0	0	0	0	0.02
Plau	0.03	0.03	0.06	0.06	0.06	0	14	14.96	48.58	46.16	44.8	59.75
Eif2ak2	25.02	24.93	24.56	28.34	28.38	28.09	22.89	22.83	16.07	21.86	22.1	15.73
Car15	0.33	0.38	0.29	0.05	0.05	0.25	0.28	0.32	0.25	0.43	0.28	0.18
Htr1b	0.75	0.53	0.48	1.11	1.36	0.48	1.5	1.63	2.19	2.57	2.81	2.59
Nqo2	10	9.37	8.25	10.56	10.4	9.75	7.26	7.2	9.45	9.77	9.55	10.31
Clk3	19.57	18.93	21.79	18.65	17.67	22.09	31.15	29.14	38.94	46.6	49.78	39.57
Fen1	64.79	61.33	40.44	60.64	60.89	40.89	10.71	10.74	35.08	38.78	39.39	40.7
Grm1	0.07	0.02	0.02	0.04	0.05	0.04	0	0	0	0	0	0
Adra2b	0	0	0	0	0.02	0	0	0	0	0	0	0
Slc9a1	12.85	13.69	14.6	12.96	13.03	13.93	11.79	10.22	12.69	11.84	12.93	11.3
Nod1	9.3	9.9	10.78	9.2	9.55	8.77	1.53	1.93	3.54	5.39	5.34	3.91
Npy1r	0.06	0.08	0.06	0.12	0.06	0.15	27.9	27.75	14.74	13.53	14.26	14.02
Gmn	62.01	61.17	53.07	72.71	63.67	58.94	14.12	13.05	34.59	40.92	37.98	40.17
Pik3cd	1.32	1.48	2.66	1.92	2.12	2.54	2.15	1.92	2.98	3.1	3.69	3.04
Cbx1	63.4	66.73	60.02	75.48	72.4	69.72	37.7	37.25	42.02	43.72	43.87	41.78
Ehmt1	11.64	12.32	11.24	11.79	11.05	10.78	10.29	10.53	13.03	14.83	14.55	13.15
Sstr2	0.28	0.3	0.45	0.2	0.4	0.34	0	0	0	0	0	0
Cyp26a1	0.17	0	0.09	0.04	0.13	0.13	0.25	0.36	0.08	0.04	0.08	0.04
Prkcg	0.1	0.13	0.11	0.21	0.12	0.11	0.71	0.69	1.2	1.23	1.5	0.95
Senp6	21.56	22.03	26.26	22.44	22.52	25.64	33.28	33.71	24.83	24.68	24.13	24.37
Rcor1	16.12	16.31	18.11	18.67	20.76	20.03	18.78	18.67	15.6	16.57	16.21	15.89
Trpm8	0.12	0.18	0.03	0.11	0.09	0	0	0	0.03	0	0	0
Dpp8	19.28	19.6	25.73	20.9	22.33	22.74	21.45	21.72	23.93	24.58	24.51	23.5
Trpv1	0	0	0	0	0	0	0	0.02	0	0	0	0
Cyp11b2	0	0	0	0	0	0	0	0	0	0	0	0
Ptger1	0.67	0.7	0.28	0.51	0.46	0.59	0.29	0.16	0.23	0.13	0.35	0.15
Pygl	0	0	0	0	0	0	0	0	0.02	0	0	0
Ache	0.06	0.06	0	0.03	0.03	0.03	0.12	0.17	0.21	0.06	0.03	0.14
Htr4	0	0	0	0	0	0	0	0	0	0	0	0
Cyp1a2	0	0	0	0	0.03	0	0	0	0	0	0	0
Ripk2	11.54	11.63	12.24	13.64	14.95	13.59	8.69	8.23	7.22	6.96	7.41	7.21
Eed	27.44	27.05	25.29	26.13	27.22	28.33	30.74	29.95	25.39	26.12	26.36	24.61
Car14	0.41	0.39	0.81	0.35	0.34	0.38	0.16	0.04	0.11	0.2	0.08	0.04
Chrm5	0	0.01	0	0	0	0	0.01	0	0	0	0	0

Cyp11b1	0	0	0	0	0	0.03	0.42	0.46	0.81	0.87	1.24	0.66
F13a1	0	0	0	0	0	0	0.16	0.17	0.03	0.1	0.08	0.11
Ctsk	0.04	0.04	0.04	0.04	0	0.04	10.33	9.45	5.6	7.81	6.44	4.89
Clk2	7.19	8.29	8.39	6.11	5.93	8.7	11.93	11.59	12.08	13.07	14.05	11.85
Cdk2	45.75	46.62	44.37	48.46	47.71	49.25	14.87	16.34	24.65	28.08	28.03	25.18
Hsd17b10	56.88	53.44	57.12	54.76	56.14	58.63	77.72	74.4	79.56	77.06	77.77	81.95
Csnk2a2	63.24	63.48	63.75	54.63	53.02	63.74	93.48	91.66	80.4	84.68	83.34	80.46
Usp4	35.54	35.56	37.21	38.86	39.23	39.72	43.43	44.2	39.08	39.35	38.48	37.78
Nfkb1	23.25	21.14	24.41	20.9	21.37	22.19	28.87	27.77	30.74	32.51	33.19	31.49
F3	18.67	17.77	24.43	19.19	16.72	23.54	70.35	70.56	30.82	27.65	26.26	27.06
Nos3	0.03	0.13	0.14	0.06	0.06	0.1	0.11	0.05	0.04	0.08	0.05	0.06
Lta4h	44.76	43.13	49.24	45.34	43.62	50.56	46.21	43.3	47.3	50.37	52.57	49.13
Metap2	126.9	122.81	95.45	122.21	122.59	105.09	108.76	108.07	104.51	103.05	99.35	110.13
Dhfr	24.73	23.67	24.19	21.05	21.49	21.67	19.07	20.05	14.4	16.16	14.95	16.91
Alox8	0.02	0.02	0.02	0.02	0	0.02	0	0	0	0	0	0
Pnp2	0	0	0	0	0	0	0	0	0	0	0	0
Ptgs1	19.11	18.71	29.12	19.3	19.25	21.55	129.07	128.04	97.91	93.48	97.16	88.14
Tdp1	17.44	17.71	19.15	14.7	15.78	17.11	21.89	21.53	17.52	17.8	17.39	19.48
Gsk3b	17.64	19.54	24.06	17.57	17.58	20.31	19.7	21.32	14.95	13.01	14.15	13.88
Ctsb	214.96	213.86	301.31	185.2	177.05	192.21	668.34	667.31	508.5	510.51	519.72	478.85
Crebbp	3.68	4.56	4.76	4.33	4.21	4.27	4.17	4.11	3.59	3.57	3.87	3.53
Senp7	6.46	6.44	9.4	6.81	6.22	7.53	7.81	7.57	5.42	6.86	6.42	5.97
Car13	42.35	38.61	48.07	38.43	39.69	41.59	41.66	40.9	28.38	31.17	31.32	27.89
Pde9a	0.03	0	0.04	0	0	0	0	0	0.07	0	0.03	0.03
Fkbp1a	291.24	280.55	225.37	287.68	260.13	243.13	297.23	296.92	341.94	351.63	342.85	353.36
Fntb	10.89	10.35	10.84	11.05	10.06	10.56	8.24	7.96	8.86	7.43	8.92	8.62
Itgb5	19.17	17.79	21.14	15.12	15.21	16.39	36.48	35.61	45.83	54.08	56.36	45.77
Hsp90aa1	795.77	776.86	424.6	797.78	794.63	514.15	468.84	472.26	589.25	575.4	548.78	621.64
Grin2a	0	0	0	0	0	0	0.01	0	0	0	0	0
Polb	43	41.83	40.35	47.43	46.13	44.81	45.92	48.85	35.57	41.59	39.57	31.39
Nox4	3	3.26	4.37	3.56	3.55	4.86	1.41	1.31	1.14	1.42	1.15	1.01
Kcnq2	0	0	0	0	0	0	0	0	0	0	0	0
Ptpn1	22.7	21.69	19.69	22.04	22.58	20.01	11.94	12.22	19.02	20.91	20.37	20.26
Ptpn2	82.38	80.97	85.42	78.5	78.43	95.06	66.53	69.64	48.22	47.18	45.13	46.5
Tnni3k	0	0	0	0	0	0	0.13	0.25	0.02	0.08	0.13	0.1
Ptgs2	1.37	1.3	1.94	1.03	1.05	1.87	247.69	259.76	188.47	127.9	123.46	141.2

Thpo	0.4	0.49	0.45	0.21	0.3	0.46	0.18	0.41	0.16	0.11	0.17	0.12
Jak2	12.59	13.37	14.78	10.38	11.3	12.13	8.74	9.87	10.62	11.23	11.92	11.06
Cyp17a1	0	0	0	0	0	0	0	0	0	0	0	0
Pikfyve	3.22	3.29	4	3.59	3.91	3.42	3.64	3.44	3.87	3.63	3.67	3.77
Aldh1a1	86.03	83.17	79.47	93.17	85.92	73.87	1.12	0.82	0.65	0.66	0.68	0.97
Sstr5	0	0.02	0	0	0	0	0	0	0	0	0	0
Slk	37.74	40.62	44.08	36.59	37.82	43.07	65.31	68.99	46.99	45.32	44.94	46.13
Tubb5	772.06	762.96	631.43	742.74	739.17	615.71	329.23	318.03	748.68	744.18	761.35	774.84
Rorc	1.87	2.13	6.17	1.69	1.58	3.39	0.35	0.23	0.09	0.21	0.22	0.13
Dhodh	11.64	10.53	8.7	9.1	9.9	9.6	16.19	16.24	15.38	16.01	16.97	17
Egfr	9.15	9.85	14.35	10.55	10.36	11.06	9.39	9.61	10.07	7.82	8.53	7.99
Kdm5c	19.59	19.61	15.44	16.97	19.64	17.18	19.82	19.62	24.69	22.97	23.74	23.12
Adrb3	1.54	1.34	1.96	1.36	1.45	1.88	0	0	0	0	0	0
Qpct	0	0	0	0	0	0	0.03	0	0	0	0	0.06
Atm	4.77	5.08	6.26	4.86	5.22	5.69	8.13	9.14	7.46	8.63	8.45	7.97
Npy2r	0	0.02	0	0	0	0	0	0	0	0	0	0
Cysl1r1	1.21	1.33	0.98	1.34	1.55	1.09	0	0	0	0	0	0
Tbxas1	0	0	0	0	0	0	0	0	0.09	0.05	0.06	0
Chrm4	0.2	0.25	0.21	0.32	0.16	0.21	0.02	0.02	0.17	0.14	0.2	0.22
Ccr4	0	0	0	0.02	0	0	0	0.02	0.04	0.04	0.02	0
Fads1	76.02	77.34	100.87	72.23	75.82	87.82	82.67	83.15	74.56	75.17	79.07	68.15
Cdc7	17.83	19.33	17.68	17.74	18.12	19.37	9.54	10.08	14.2	16.45	17.17	15.56
Idh1	11.23	9.2	9.77	14.1	13.8	10.48	10.93	10.52	28.53	30.07	30.24	29.62
Cyp11a1	0	0	0	0	0	0	0.12	0.07	0.16	0.1	0.14	0.21
Chuk	31.55	32.86	36.35	29.64	27.92	33.84	45.29	46.35	26.37	25.75	24.47	25.82
Usp5	58.08	55.43	40.49	57.37	60.09	45.93	39.23	41.8	64.08	61.49	63.11	65.84
F9	0	0	0	0	0	0	0	0	0	0.02	0	0
Nampt	24.41	23.71	29.89	22.19	22.53	24.71	31.77	33.85	27.98	27.91	26.2	27.15
Csf1r	0.02	0.07	0.03	0	0.08	0.07	0.02	0.05	0.05	0	0.02	0.1
Capn1	15.04	15.74	17.27	17.46	18.62	16.36	19.94	19.26	26.37	28.09	28.16	25.22
Chrng	0	0	0	0	0	0.03	0	0	0	0	0	0
Mdm2	39.06	38.68	37.59	40.53	39.26	44.42	32.23	32.37	24.05	21.9	21.31	23.55
Adam17	25.76	24.08	28.56	26.4	27.34	28.51	11.23	11.49	13.28	14.68	13.97	13.75
Abat	0.92	0.77	0.62	0.34	0.4	0.55	0	0.03	0.04	0.01	0.03	0.04
Oprk1	0	0.01	0	0.01	0	0.01	0	0	0	0	0	0.01
Map2k1	43.02	41.72	46.62	38.96	39.45	39.06	77.41	76.04	57.2	59.41	59.52	57.1

Chrm3	0	0	0	0	0	0	0	0	0.04	0.04	0.06	0.06
Srd5a2	0	0.08	0	0	0	0	0	0	0	0	0	0
Cnr2	0.03	0.03	0	0.02	0	0	0	0	0	0	0	0
Oprd1	0.02	0.02	0	0	0.03	0	0	0	0.02	0	0.02	0.01
Nr3c2	0.1	0.09	0.14	0.07	0.09	0.11	0.01	0.01	0.03	0	0.03	0
Src	13.24	14.66	17.93	15.97	17.61	19.44	15.71	15.43	14.21	13.56	14.42	14.74
Gabrb2	0.49	0.56	0.65	0.44	0.57	0.46	0	0	0	0	0	0
Maoa	24.4	24.22	26.27	24.29	24.69	23.76	29.16	27.51	21.83	20.38	19.92	23.81
Prkca	15.32	16.28	18.31	17.19	17.01	17.32	11.57	12.66	13.76	13.5	13.77	14.2
Kit	0	0	0	0	0	0	0	0	0	0	0	0
Htr6	0.24	0.02	0.35	0.15	0.13	0.2	0.05	0.05	0.13	0.18	0.16	0.06
Car5b	2.39	2.6	3.02	2.71	2.75	3.57	1.84	1.97	2.64	2.68	2.5	2.75
Htr7	0.04	0	0.02	0	0	0.02	0	0	0	0	0	0
Pik3cb	22.05	22.8	23.28	20.12	20.77	21.43	16.53	16.56	12.93	14.52	14.22	14.43
Fyn	14.08	15.63	25.98	16.55	16.56	22.13	36.96	38.09	14.16	14.21	13.59	14.53
Alpl	5.6	5.15	8.45	2.06	2.08	1.92	0.13	0.15	0.1	0.05	0.1	0.15
Grin2b	0	0	0	0	0	0	0	0.01	0	0	0	0
Mmp9	1.03	0.79	0.78	0.18	0.38	0.16	1.23	1.24	1.7	2.08	2.71	2.24
Rps6ka3	18.39	18.31	21.96	22.5	22.63	22.61	38.68	39.75	31.65	31.01	30.43	32.7
Agtr1a	0	0	0	0	0.03	0	0	0	0	0	0	0
Zap70	0	0	0	0	0.05	0	0	0	0	0.05	0	0
Kmo	0	0	0	0	0	0	0	0	0.05	0	0	0
Pde5a	1.41	1.75	2.34	1.55	1.38	1.93	0.11	0.09	0.03	0.05	0.08	0.09
Xiap	12.92	13.48	17	15.43	16.17	17.81	10.82	10.66	14.41	15.88	16.11	14.81
Cnr1	6.43	6.72	5.84	6.95	7.13	6.57	0	0.01	0	0	0	0
Pde2a	0.09	0.12	0.12	0.03	0.05	0.06	0.21	0.26	0.17	0.34	0.27	0.13
App	293.37	301.53	379.18	324.52	334.88	351.3	95.69	93.03	79.12	85.12	86.99	82.42
Trpc6	0.46	0.61	0.31	0.47	0.52	0.35	12.55	14.06	6.7	9.85	9.84	8.49
Flt1	6.21	5.98	7.63	7.71	8.55	9.23	0.03	0.05	0.03	0.08	0.05	0.07
Htr1d	0.02	0.05	0.02	0.02	0.05	0	0	0	0	0	0	0
Ednra	0	0	0	0	0	0	3.39	3.82	3.7	4.6	4.52	4.1
Adralb	0.89	1.25	1.07	1.57	0.92	0.97	0	0.02	0	0	0	0
Hmgcr	18.89	19.08	15.87	20.1	19.51	18.68	8.17	8.47	19.56	20.98	22.15	22.22
Cpt1a	47.34	47.83	51.68	47.75	49.31	49.71	18.8	19.17	31.11	32.69	33.24	32.34
Ncstn	28.3	26.8	31.5	35.54	36.07	36.35	25.82	27.37	25.03	27.62	28.04	25.72
Npy5r	0.05	0.06	0	0.08	0.03	0.08	0.03	0.08	0.26	0.19	0.08	0.21

Dpp9	36.42	35.75	31.05	31.11	32.49	29.98	27.74	26.6	33.81	31.18	32.22	32.34
Pim2	7.45	7.47	7.19	8.07	7.49	7.57	2.59	2.41	3.89	3.35	4.14	2.98
Igflr	6.23	7.18	7.89	8.19	8.29	7.71	5.48	5.5	7.72	8.47	8.34	7.39
Pla2g10	0	0	0	0	0	0	0	0	0	0	0	0
Prep	79.3	80.12	65.24	86.15	87.16	78.1	87.9	87.36	76.7	74.26	75.19	74.63
Mapk10	0.01	0	0	0.02	0	0.03	0.02	0.1	0.08	0.05	0	0.05
Sirt2	43.5	44.44	56.72	36.98	35.28	44.36	40.9	36.16	36.11	33.46	32.45	34.25
Nos1	0.02	0.02	0.05	0.01	0.02	0.06	0.01	0.01	0.02	0.01	0.02	0.04
Adora2a	0.2	0.27	0.45	0.26	0.32	0.27	0.06	0	0	0.03	0	0.02
Htr2b	0.11	0.17	0.1	0.08	0.12	0.16	0.04	0.09	0.13	0.08	0.05	0.09
Chrnbl	7.27	7.11	8.89	8.17	8.32	9.83	5.25	4.71	3.63	3.02	3.43	3.61
Chrn4	0.61	0.57	1.07	0.34	0.38	0.78	0.07	0.03	0	0	0	0.03
Hsd11b1	0	0	0	0	0	0	0.1	0.57	1.39	0.89	0.58	1.09
Polh	28.02	27.73	24.03	26.16	25.61	23.21	15.48	17.11	25.05	28.26	28.29	27.33
Brd9	17.3	18.11	13.06	17.62	16.99	13.68	6.43	6.81	10.62	10.36	10.24	9.9
Alk	0	0.01	0.02	0.01	0.01	0.01	0.05	0.01	0	0.01	0.01	0.04
Chrna4	0	0	0.01	0	0	0	0	0	0	0	0	0
Nr1h3	1.25	0.73	1.09	0.76	0.63	1.03	0.04	0.22	0.11	0.11	0	0
Sigmar1	29.51	29.96	20.1	29.87	28.86	22.1	41.24	39	71.24	69.41	70.79	74
Slpr2	8.85	9.54	10.39	13.43	13.49	11.8	9.04	8.37	13.33	13.51	13.61	12.54
Soat2	0.1	0.21	0.29	0.21	0.24	0.32	1.97	2.52	0.17	0.06	0.17	0.04
Senp8	1.9	2.3	3.38	2.42	2.55	3.51	3.9	3.67	2.96	2.92	3.25	3.24
Cftr	1.71	2	2.18	1.8	1.91	2.58	0	0	0	0	0	0
Ccr2	0	0	0	0	0	0	0	0.02	0	0	0	0
Itk	0	0	0	0	0	0	0.01	0.01	0	0	0	0.05
Pim3	33.88	32.86	43.08	27.48	28.79	37.07	58.36	59.35	32.6	33.8	33.48	32.68
Oxtr	0	0	0	0.03	0	0.04	0.11	0.11	0.04	0.2	0.25	0.08
Mapk14	34.48	32.7	35.56	40.81	39.51	39.33	28.31	27.83	34.89	34.77	35.53	35.48
Polk	5.64	5.95	7.37	5.49	5.11	7.74	5.46	5.98	4.7	5.22	5.46	4.1
Adra1d	0.5	0.43	0.59	0.18	0.24	0.22	0.16	0.2	0.2	0.26	0.21	0.33
Porcn	2.16	2.32	2.63	1.44	1.65	1.81	6.48	7.52	7.24	5.62	4.83	5.94
Nr1h2	32.78	35.48	34.45	30.31	28.41	30.71	16.86	17.3	27.16	29.64	28.76	24.07
Car2	0.29	0.33	0.27	0.78	0.55	0.74	0	0.04	0	0	0.07	0
Csnk2a1	58.94	61.96	62.89	60.83	61.06	63.6	51.07	51.56	47.84	50.16	49.38	48.82
F10	0	0	0	0	0	0	0	0	0	0	0	0
Aurkb	69.36	69.42	44.26	59.09	55.25	47.54	12.03	12.18	42.71	49.5	50.94	49.66

Cdc25b	33.5	35.96	35.07	34.61	33.83	36.16	23.12	23.41	34.9	35.67	34.93	36.57
Ppard	18.33	18.8	21.01	16.76	17.26	18.76	27.13	25.66	40.24	36.94	38.73	36.68
Grm2	0	0	0	0	0	0	0	0	0	0.02	0	0
Akr1b8	61.24	57.63	54.72	57.14	55.32	53.14	63.89	66.1	110.65	109.01	112.71	108.07
Impdh1	35.93	35.3	29.63	34.14	35.85	30.95	33.51	33.04	37.8	36.86	36.68	35.23
Adora2b	0.28	0.18	0.29	0.21	0.11	0.21	0.07	0.07	0	0.03	0.1	0.03
Grm5	0	0	0	0	0	0	0	0	0	0	0	0
Mapk8	11.99	12.38	13.05	11.34	11.25	12.89	9.78	10.39	9.23	9.25	9.06	10.33
Chrna1	0	0.04	0.01	0.03	0	0.01	0.04	0	0.03	0.01	0.01	0
Chrm1	0.52	0.68	0.72	0.18	0.12	0.29	0	0	0.01	0	0	0.01
Pde4a	2.95	2.71	3.35	3.09	3.03	3.74	5.32	4.95	5.83	5.88	6.46	6.46
Prkcd	25.57	26.07	27.19	28.65	28.64	27.2	18.86	18.67	21.93	22.14	23.09	18.89
Aurka	103.43	103.41	61.59	99.1	90.43	72.67	41.73	42.15	60.55	61	58.62	61.58
Jak1	42.13	42.54	43.55	45.07	43.83	46.02	70.12	70.65	71.94	70.46	70.28	70.55
Dyrk2	13.88	14.55	16.58	20.01	18.94	15.96	20.71	21.23	21.7	21.71	22.52	19.94
Ptges	0.15	0.17	0.24	0.17	0.15	0.09	0.9	1.06	1.52	1.17	1.15	0.98
Itgav	50.96	54.12	58.26	52.59	55.53	50.85	32.62	34.39	32.26	33.42	33.37	31.33
Mtor	7.07	7.26	8.01	7.23	7.37	7.77	9.4	9.24	9.01	8.84	9.02	9.28
Psen2	3.39	3.66	5	3.65	3.35	4.89	3.49	2.85	1.85	1.54	2	2.19
Cdk9	18.94	18.19	18.03	18.76	18.98	22	33.99	32.78	42.04	41.85	42.27	40.22
Adrala	0.01	0	0	0	0	0	0.01	0	0	0.01	0	0
Naaa	15.74	16.2	21.45	16.03	15.06	19.86	17.09	16.76	11.4	10.91	11.36	13.41
Slc6a9	5.19	6.26	16.19	5.54	4.79	14.39	46.7	45.58	8.73	8.94	7.27	7.1
Jak3	2.17	1.99	3.33	1.68	1.68	2.06	2.01	1.43	3.02	3.21	3.31	3.01
Cd38	0	0	0	0	0	0	0	0.02	0	0	0	0
Itga4	0.02	0	0.01	0	0.01	0.01	0	0	0	0	0	0
Ccnd1	29.78	29.61	22.41	34.32	34.49	23.5	69.41	68.8	124.57	116.5	116.65	138.17
Casp7	25.36	27.3	31.03	25.63	25.23	27.66	8.02	6.5	5.77	6.36	6.49	5.61
Nqo1	7.82	7.05	6.38	9.24	9.76	8.47	4.65	3.53	12.31	7.05	7.28	12.38
Slc6a3	0	0.02	0	0	0	0	0	0	0	0	0	0
Pin1	16.44	15.2	13.33	15.08	15.15	14.48	14.48	14.69	13.01	13.72	13.61	13.92
Tert	0	0	0	0	0.01	0.02	0.38	0.75	0.94	0.98	0.86	0.71
Hdac1	84.13	81.3	74.13	94.73	96.7	89.02	56.15	59.68	73.95	74.62	69.04	79.96
Kdm5a	11.04	11.8	14.38	10.71	12.06	14.06	10.05	11.21	6.93	7.71	7.75	6.73
Adrb1	1.26	1.43	1.55	1.34	1.43	2.13	0	0	0	0	0	0
Pdgfrb	1.23	1.39	2.16	1.03	0.65	1.34	2.45	2.48	3.54	3.94	4.65	2.56

Pde7a	9.05	9.02	9.33	8.89	9.01	9.05	12.73	11.82	12.46	13.52	11.73	10.87
Tgfbr1	9.29	10.1	11.57	8.7	9.28	10.74	5.24	5.33	5.35	5.49	5.36	5.06
Bace1	6.62	5.8	6.3	6.44	7.08	5.73	5.65	5.54	11.36	11.54	12.07	11.09
Ppia	3701.25	3402.93	2765.02	3508.64	3446.47	3062.95	2519.71	2445.34	3109.77	3115.64	3030.57	3231.59
Ros1	0.01	0.01	0.02	0	0	0	0.01	0	0	0	0	0
Soat1	13.72	14.74	21.01	16.6	16.75	17.04	39.47	40.43	38.23	35.54	36.64	37.2
Htr2c	0	0	0.02	0	0	0	0	0	0	0	0	0
Pgr	0	0	0	0	0.01	0.01	1.43	1.26	0.85	1.27	1.25	1.16
Ikbkb	14.21	15.58	16.3	16.45	16.5	19.17	29.26	27.14	23.69	25.27	25.98	23.74
Maob	0.05	0	0.05	0.08	0	0.03	0	0.03	0	0	0	0
Dyrk1a	9.36	11.41	11.54	11.87	12.05	13.54	13.39	13.16	11.04	10.17	10.47	10.33
Faah	1.24	1.29	1.9	0.77	1.03	1.52	0.14	0.16	0.22	0.15	0.34	0.26
Fdps	39.16	35.43	26.3	39.89	37.18	31.22	53.09	48.42	127.13	133.09	127.37	131.98
Elane	0	0.08	0	0	0	0	0	0	0	0	0	0.07
Gck	0.05	0	0.03	0.05	0	0.11	0	0	0	0	0	0
Chrnd	0	0	0	0	0	0	0.02	0	0	0	0	0
G6pdx	46.7	43.3	28.9	46.69	44.28	31.73	98	97.93	96.89	89.9	90.96	94.79
Parp1	49.67	48.95	45.86	45.37	48.28	48.36	33.13	32.67	47.94	45.47	45.99	46.99
Hdac10	4.02	3.94	4.25	3.45	3.01	2.83	2.67	2.89	3.61	3.22	3.59	3.4
F7	0	0	0	0	0	0	0	0.04	0	0	0	0
Ptk2	38.74	37.62	39.79	40.05	40.57	40.32	41.39	41.03	43.28	41.05	41.31	43.54
Atr	7.59	8.7	10.92	6.97	7.95	9.17	8.51	10.13	5.41	5.06	6.22	6.28
Bcl2	1.27	1.48	2.57	1.48	1.92	2.44	1.79	1.9	2.24	2.22	2.1	2.32
Fgr	0	0	0	0	0	0	0	0	0	0	0	0
Pla2g2e	0.17	0.25	0.52	0.1	0.09	0.53	1.86	2.33	0.18	0.27	0.08	0.19
Gabra1	5.15	5.03	4.91	9.99	9.4	7.38	0	0	0	0	0	0
Car12	1.24	1.42	2.2	1.07	1.42	1.13	28.2	28.42	28.54	30.89	29.48	28.05
Tacr3	0	0	0.05	0	0.02	0.02	0	0	0	0	0	0
Asah1	58.33	57.84	98.01	65.88	66.08	84.56	134.13	140.89	107.6	117.9	117.4	109.76
Mtnr1a	0.04	0	0	0	0	0	0	0	0	0	0	0
Ace	0.01	0	0.02	0.04	0	0.02	0.02	0	0	0	0	0
Grin1	0.02	0.02	0	0	0	0.05	0.03	0	0	0.02	0.02	0
Cckar	0	0	0	0	0.02	0	0	0	0.02	0	0.04	0
Ltb4r1	0.05	0.06	0	0	0.11	0.06	0.03	0	0.05	0	0.05	0.05
Braf	6.97	8.15	10.15	7.7	7.52	10.14	8.01	8.48	5.64	5.55	5.68	5.41
Ccne1	16.87	16.63	12.25	18.7	18.03	13.26	19.66	19.51	33.88	36.39	35.96	38.26





Cyp2c66	0	0	0	0	0	0	0	0	0	0	0	0
Slc6a2	0	0	0	0	0	0	0.02	0.02	0.06	0.04	0.11	0.07
Sphk2	10.4	11.13	10.75	10.13	10.37	9.97	12.35	12.4	9.14	9.49	8.7	9.48
Mc3r	0	0	0	0	0	0	0	0	0	0	0.02	0.07
ErbB4	0.04	0.04	0.12	0.07	0.07	0.15	0	0	0	0	0	0
Cts1	407.9	378.2	503.74	485.16	477.49	508.66	538.08	527.59	560.25	526.76	510.45	503.46
Mme	14.4	14.84	22.74	23.44	23.09	21.63	0.01	0	0	0	0.01	0
Poli	10.02	10.8	13.62	10.99	11.9	15.74	8.22	8.1	5.36	6.64	6.08	6.25
Tubb1	0	0	0	0	0	0	0	0	0	0	0	0
Plk1	77.93	76.31	43.04	65.72	63.79	42.3	33.12	30.82	65.48	69.75	66.75	73.4
S1pr3	0.01	0.06	0	0.01	0.06	0.06	0	0	0	0	0	0.01
Tacr2	0.33	0.42	0.37	0.48	0.26	0.52	0.11	0.14	0	0	0.06	0.03
Top1	62.11	63.85	47.87	69.45	66.21	48.82	59.53	60.48	58.42	59.66	56.04	56.79
Abcb1b	11.44	12.04	12.3	9.34	9.15	10.78	33.61	33.83	20.49	18.42	19.04	21.58
Prkdc	2.69	2.77	4.32	3.05	3.39	4	3.95	4.32	2.94	3.08	3.35	2.97
Bcat2	11.21	10.68	10.42	11.4	11.47	12.7	11.37	10.43	13.21	13.25	15.11	12
Car9	0.1	0.29	0.53	0.21	0.26	0.34	0.4	0.28	0.13	0.29	0.37	0.22
Scd2	50.58	49.77	47.68	65.17	65.82	47.98	88.05	89.96	271.82	276	277.37	273.77
Tph1	0.36	0.41	0.27	0.36	0.23	0.26	0.89	0.43	0.6	0.26	0.44	0.83
Khk	5.14	6.69	10.62	7.19	6.4	8.49	2.2	2.29	2.43	1.86	3.09	1.73
Rock2	28.7	30.94	36.51	31.6	32.57	34.27	32.72	34.31	28.08	27.8	26.83	29.58
Aoc3	0.07	0.1	0.1	0.15	0.12	0.03	0.05	0.19	0.05	0.07	0.02	0.05
Rock1	19.15	21.64	21.21	24.57	24.64	25.53	8.5	9.35	10.54	9.89	10.53	9.68
Dyrk1b	3.35	3.2	4.01	2.61	2.62	3.67	0.96	0.77	2.38	2.27	1.96	1.95
Tlr4	2.43	2.04	2.77	3.15	3.72	2.64	8.2	8.76	6.53	7.07	6.57	6.8
Alox12	0.04	0	0.04	0	0	0	0	0	0	0	0	0
Carm1	45.18	45.36	41.2	41.51	40.12	37.71	67.89	66.85	59.07	60.16	60.28	63.48
Adra2a	0	0.13	0.05	0.08	0.08	0.02	0.05	0.06	0.11	0.02	0.16	0.14
Ret	0.02	0	0	0	0	0	0	0	0.01	0	0.01	0
Aph1a	32.17	31.65	34.49	32.97	35.82	36.6	23.18	22.21	28.62	31.73	31.25	32.55
Mc5r	0.01	0.06	0	0	0	0	0.11	0.04	0.06	0.03	0.01	0
Car5a	0.39	0.32	0.22	0.37	0.18	0.39	0.38	0.16	0.11	0.16	0	0.18
Cdk4	351.66	334.99	360.05	312.88	299.43	319.36	388.77	376.73	430.61	408.18	397.66	415.63
Icmt	12.16	12.67	13.12	12.92	12.97	13.02	8.07	8.58	12.5	12.25	13.42	13.25
Hdac3	36.24	38.4	36.93	38.1	36.85	37.25	53.82	56.02	63.03	66.58	65.61	62.44
Scn3a	0.14	0.18	0.3	0.28	0.33	0.26	0	0.03	0.03	0	0.01	0.01

Gper1	0.05	0.08	0.13	0.05	0.03	0	0	0.02	0	0.03	0.07	0
Ehmt2	44.75	47.31	52.69	40.72	39.98	42.25	36.51	36.2	53.57	53.53	57.8	54.1
Mmpla	0	0	0	0	0	0	0	0	0	0	0.03	0
Akt3	6.58	7.41	11.57	9.07	8.93	11.6	19.35	20.17	16.88	19.7	19.69	15.47
F2	0.03	0	0	0.03	0.06	0	0	0	0	0	0	0.03
Casp1	0	0.09	0.04	0.09	0	0.04	0.04	0.04	0.16	0.09	0.04	0.17
Brpf1	14.25	14	13.87	15.16	15.15	14.44	13.11	12.51	13.82	14.1	15.09	13.84
Pik3ca	7.91	7.65	8.7	7.57	7.33	7.85	9.6	9.48	12.96	13.7	12.9	12.78
Nr3c1	14.04	14.36	21.51	18.48	18.79	19.74	41.25	40.07	25.93	24.34	24.4	24.31
Gabrg2	0	0	0	0	0.02	0	0	0	0	0	0	0
Met	34.48	35.46	35.81	28.12	30.45	26.29	15.57	14.63	21.28	21.37	21.19	23.22
Pim1	11.56	11.07	18.59	11.87	11.73	15.56	30.79	29.28	14.21	16.3	15.18	14.79
Ednrb	0	0	0	0	0	0	0	0	0	0	0	0
Slc6a4	0.07	0.02	0.07	0.02	0.05	0.07	0.07	0.02	0	0.02	0.09	0.02
Gsk3a	67.84	65.61	58.67	59.47	59.34	62.3	41.85	40.37	56.23	51.39	52.15	54.66
Psen1	29.01	29.42	32.96	30.48	30.61	34.6	26.5	24.98	22.19	22.29	22.45	20.7
Mitf	0.78	0.52	1.16	0.38	0.36	0.63	3.21	3.24	1.81	2.36	2.28	1.79
Hrh3	0	0	0	0	0	0.03	0	0	0	0	0	0
Akr1b3	152.13	143.87	112.99	132.73	134	121.5	302.14	304.1	284.78	279.5	281.8	304.91
Adam10	56.15	55.93	61.44	44.88	43.7	40.88	30.06	29.99	35.2	36.42	35.4	36.09
Ar	0	0	0	0	0	0	2.79	3.04	2.89	3.29	3.54	3.24
Mapk3	85.08	85.01	119.3	89.35	88.59	100.47	58.46	55.63	76.57	76.43	77.31	65.97
Ccr9	0.03	0	0	0	0	0	0	0	0	0	0	0
Lyn	1.2	1.42	1.76	2.48	1.99	2.55	0.2	0.12	0.17	0.31	0.37	0.15
Car1	0	0	0	0	0	0	0	0	0.05	0	0	0
Raf1	44.15	43.31	49.1	42.26	42.8	49.85	37.52	37.67	33.67	33.58	33	35.12
Kdmla	43.7	42.45	46.89	38.45	40.08	43.29	50.14	50.7	46.17	45.98	47.62	45.94
Htr2a	0	0	0	0	0	0	9.62	8.91	11.08	8.9	9.56	11.48
Grial	0	0	0	0	0	0	0	0.01	0	0	0	0
Psenen	90.06	85.99	105.67	94.66	82.78	92.78	114.48	106.97	84.55	81.77	87.39	78.47
Ccr5	0	0	0	0	0	0	0.02	0.02	0	0	0	0
Pparg	2.2	1.84	1.92	0.84	1.02	0.61	0	0	0	0	0	0
Fgfr1	3.56	4.53	3.98	2.48	2.37	2.18	43.86	43.08	37.59	39.43	40.8	37.52
Tlr7	0.24	0.23	0.25	0.27	0.41	0.23	0.83	0.62	1.44	1.06	0.93	0.82
Slpr1	1.02	0.91	1.3	1.19	1	0.8	0.91	1.21	1.91	1.73	1.78	1.58
Pla2g4a	11.28	11.02	13.09	11.85	12.48	11.53	52.43	53.52	54.05	58.05	57.59	51.27

Tbxa2r	0.2	0.36	0.22	0.67	0.54	0.64	0.03	0	0	0	0	0.03
Grm4	0	0.02	0	0	0	0	0	0	0	0	0	0
Pik3cg	0.01	0	0.01	0	0	0	0	0.01	0	0.01	0	0
Wdr5	26.34	27.13	29.79	26.06	25.29	29.17	37.99	36.91	30.71	30.95	29.62	29.86
Mgl1	0.45	0.59	0.79	0.25	0.34	0.76	0.11	0.02	0.02	0.05	0.11	0.02
P2rx7	12.79	13.81	19.43	13.57	13.82	15.18	5.06	4.54	0.27	0.19	0.31	0.14
Pde10a	0.01	0.01	0.02	0.02	0.01	0.03	9.58	9.48	7.15	7.23	7.7	7.04
Trpc3	0.08	0.05	0	0.02	0	0	0	0	0	0	0	0
Thrb	0	0	0	0	0	0	0	0	0	0	0	0
Adora1	0.01	0.01	0.03	0.01	0.06	0.01	0	0	0	0	0	0
Cyp19a1	0	0	0	0	0	0	0	0	0	0	0	0
Avpr1a	0	0.02	0	0	0.02	0.05	0	0	0	0	0	0
Alox5ap	2.54	2.41	2.58	2	2.07	2.69	0.4	0.29	0.83	1.78	1.68	0.99
Hsd17b2	0	0	0	0	0	0	0	0	0	0	0	0
Abl1	16.61	16.85	18.27	17.37	17.4	16.23	9.05	8.25	13.19	13.01	13.78	12.57
Cxcr2	0.16	0.22	0.13	0.12	0.14	0.11	0.18	0.16	0.15	0.15	0.06	0.12
Stat3	31.07	31.96	41.58	31.55	31.07	35.63	34.21	32.62	37.9	39.83	43.26	34.19
ErbB2	11.04	11.03	10.92	10.39	10.8	10.67	5.65	5.45	7.23	7.52	7.67	7.11
Mmp13	1.14	0.85	1.13	0.35	0.45	0.36	3.88	4.4	2.08	3.14	3.34	2.17
Esrl	0.46	0.74	0.8	0.19	0.29	0.48	7.73	7.87	9.17	9.35	9.19	10.47
Ctss	0	0	0	0	0.05	0	0	0.05	0	0	0.06	0
Car7	0.88	0.63	1.11	1.22	0.73	1.22	0.88	0.72	0.29	0.56	0.41	0.38
ChrnB2	0.04	0.03	0.05	0.03	0.03	0.13	0.08	0.14	0.12	0.1	0.06	0.11
Cdk1	68.73	64.95	52.54	66.39	66.13	54.6	23.84	23.85	40.78	42.1	42.48	44.09
Mapk1	85.67	82.92	88.83	94.54	98.44	102.55	79.82	82.02	77.54	80.28	74.64	78.15