

Figure S1

<b>PfPLSCR</b>	-----MEEKNIHMQPNIINYSYRNPNNMYNMNY--	26
<b>VbraPLSCR2</b>	-----MKGEKGAEPQQMVMQ-----PQAYGQPQVM	25
<b>VbraPLSCR1</b>	MPQQPTFPVAPKAVQPSQSPNAVPPQQIPNHAGMHPPTPINHAGFASAPPQHQMVGQ--TA	58
<b>CvelPLSCR</b>	-----	0
<b>PfPLSCR</b>	HN <b>P</b> I <b>V</b> P <b>P</b> PPQQMQLFVNDWKSIL <b>SPM</b> <b>Q</b> <b>T</b> <b>C</b> <b>K</b> <b>I</b> <b>K</b> <b>Q</b> <b>Q</b> <b>F</b> <b>D</b> <b>D</b> <b>R</b> E <b>F</b> VADYFMGFKLDFNNKYLILD	86
<b>VbraPLSCR2</b>	QPVAQMMPGMMVINTDPWAILSGMTGAEIKERVVM----AEAILGW--EQNNIYDIKD	79
<b>VbraPLSCR1</b>	TAADAPTNPAMALGSPDPFIALSGMNKVQVSEKVR-----LEAVIGW--EQNNVFRIKN	112
<b>CvelPLSCR</b>	-----MQFTMDPFQMLASQQKVYVKEKIKI----L-EFIGI--DQANKYAVKD	41
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<b>PfPLSCR</b>	ASTELMKFTACEKSEFCYR----NCLPKICIPMNMKILS--YGKEISKPDILMEKDCTCT	140
<b>VbraPLSCR2</b>	QNG-NPAFIAKEDTDTCTRLIG <b>CC</b> PVQDCRMFKLDISVPPMPGASPPFFLHLDRPWTCT	138
<b>VbraPLSCR1</b>	EFG-ADVMVAKEETEWEYKR----N <b>C</b> CLGDCRPWDVDVALCPVAGAPPAPFIHLQRKWSLT	167
<b>CvelPLSCR</b>	VNG-NEMFIAKETTGFCA <b>R</b> ---- <b>C</b> CLPTTCRPFNLEMF- <b>I</b> KVPGSQPQFFIKADKE <b>C</b> QMT	95
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<b>PfPLSCR</b>	FLCFNRPTIKMYDFSNNNNKELIGTIKTPYR <b>CC</b> SYNFNLFDPSSNNKIMYMDDT <b>CC</b> QMSIL	200
<b>VbraPLSCR2</b>	CYCFNRPKVTVTDLTA--GGEVIGTMRDPWH <b>CC</b> NYNMRMADPEGKDVLNVEAS <b>CC</b> QCGFW	196
<b>VbraPLSCR1</b>	<b>CC</b> CIGRPKVTVDVTT--N-QKLSVSDPWH <b>CC</b> DVTFVIRDHQGRKIMRVRGGGCQCGW <b>C</b>	224
<b>CvelPLSCR</b>	<b>CC</b> CLNRPKMVMNHT--G-QQIGILKDDFD <b>CC</b> NHIFSINDNQENPTLRIKGNMOCG <b>I</b> C	152
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<b>PfPLSCR</b>	CPCPWGPFKYSNFFLRDANSKEKIAHL <b>R</b> KEVP-- <b>FL</b> KFVKR <b>D</b> IDNY <b>TL</b> D <b>F</b> EQVQN <b>PEW</b> <b>KM</b>	258
<b>VbraPLSCR2</b>	CPLPCGPCKEVQFEITDVESKQKVGHF <b>R</b> IVPC <b>N</b> LL <b>K</b> FL <b>F</b> TDVDNYQVE <b>F</b> GGITD <b>PK</b> <b>W</b> <b>K</b>	256
<b>VbraPLSCR1</b>	<b>C</b> H <b>C</b> PCG <b>P</b> CRKIKFPV <b>F</b> DAKTGREIAS <b>I</b> R <b>H</b> EWGG-- <b>L</b> FK <b>S</b> M <b>C</b> T <b>D</b> ADDY <b>W</b> ID <b>F</b> GEVQD <b>PR</b> <b>W</b> <b>K</b> <b>S</b>	283
<b>CvelPLSCR</b>	<b>C</b> K <b>C</b> PCGPCKYVKFDITDMKSQQAVGQIVKENTC-LGTIADDMN <b>D</b> KY <b>W</b> VD <b>F</b> GAVSE <b>P</b> Q <b>W</b> <b>K</b> <b>A</b>	211
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<b>PfPLSCR</b>	<b>ML</b> L <b>A</b> F <b>A</b> L <b>F</b> L <b>D</b> Y <b>M</b> Y <b>D</b> R <b>K</b> -----	275
<b>VbraPLSCR2</b>	<b>LL</b> L <b>A</b> A <b>A</b> V <b>F</b> A <b>D</b> F <b>R</b> Y <b>F</b> S <b>T</b> N <b>K</b> NENSALGTIS	284
<b>VbraPLSCR1</b>	<b>LL</b> I <b>A</b> T <b>A</b> L <b>F</b> L <b>D</b> F <b>R</b> Y <b>F</b> S <b>R</b> GADGLAA-----	306
<b>CvelPLSCR</b>	<b>ML</b> V <b>T</b> A <b>A</b> I <b>F</b> I <b>D</b> F <b>R</b> M <b>F</b> Q <b>G</b> GKKDENSTG---	236
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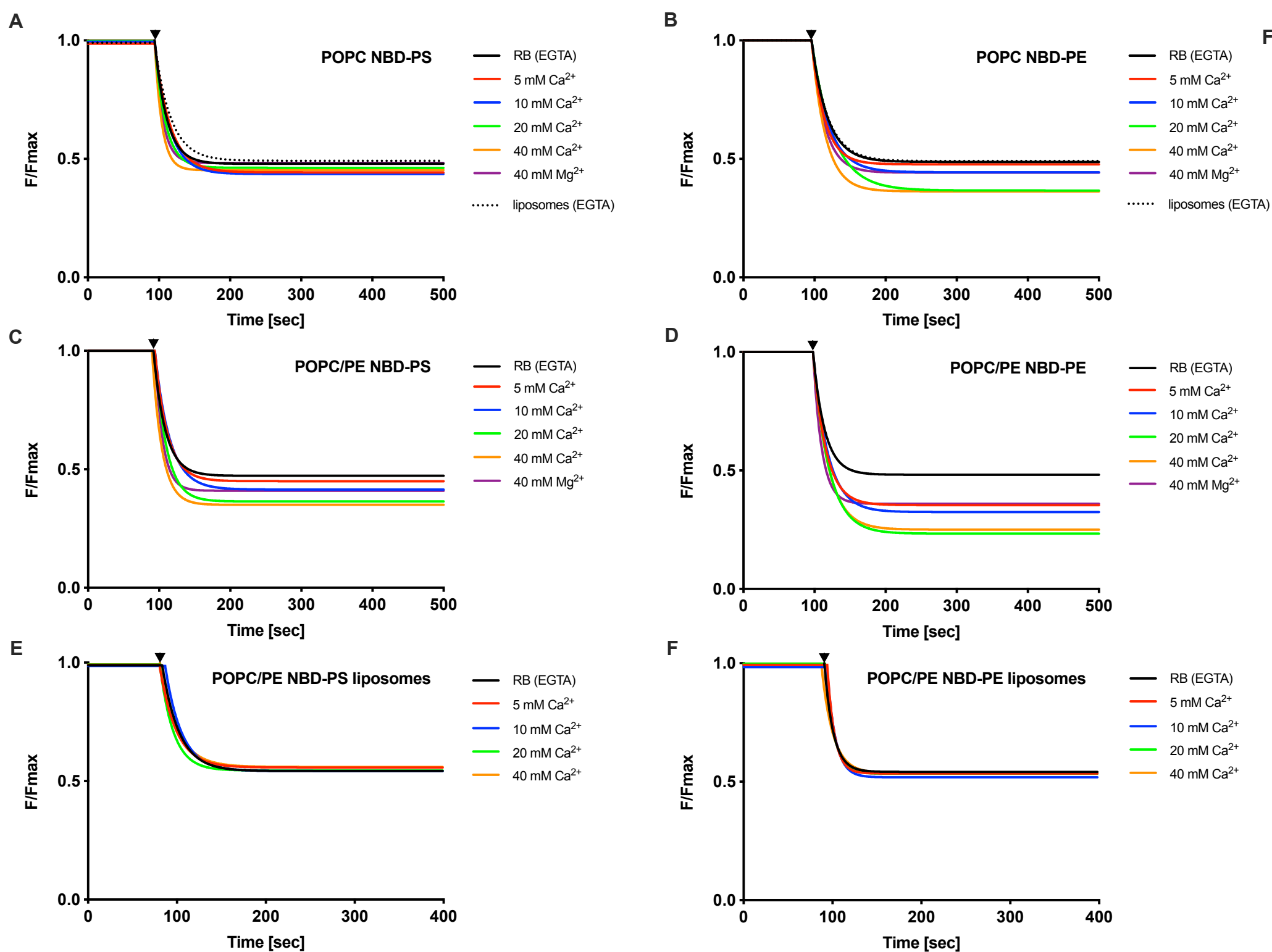
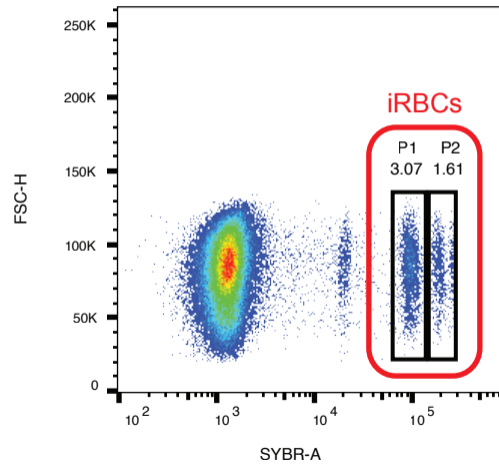
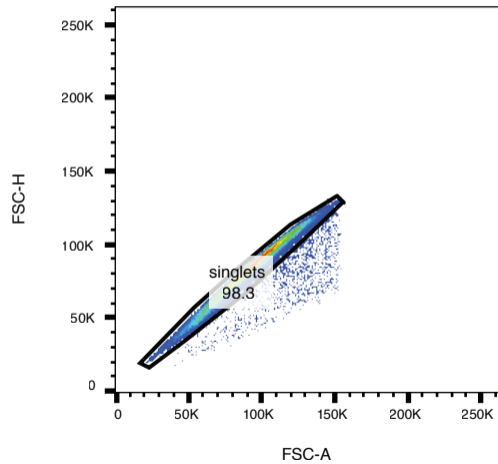
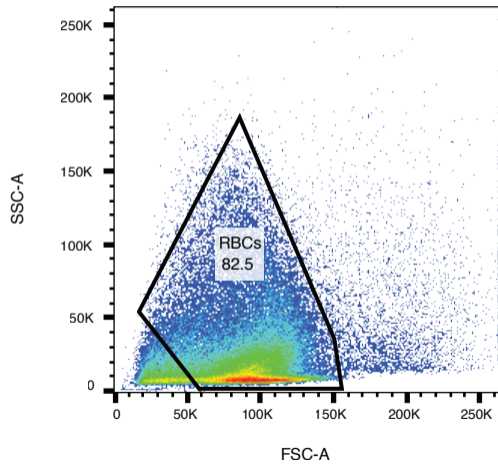


Figure S3



**Table S1. All primers used in the study.**

1022700 cKO & KO P1	GAACATAAAATATATTTAAAATGTTATATATACATAGATAG
1022700 cKO & KO P2	GAGAAGGTTATTGCATCCTTCAATAAAAATGGGAAAATTG
NeoR P3	GGCCAGCCACGATAGCCGCGCTGCCTCG
GFP P4	CAAGTGTTGGCCATGGAAGTGGTAGTTTTCCAGTAGTGC
M13R P5	CAGGAAACAGCTATGACCATG
1022700 5F (XhoI)	CGC <u>cctcgag</u> GGTATTTCCCAGGTGCTCGT
1022700 5R (HindIII)	CGC <u>aagctt</u> CATATGTATATTTTTCTCTTCC
1022700 3F (NotI)	CGC <u>gcgccgc</u> GCTCACCTACGTAAAGAAGT
1022700 3R (SacI)	CGC <u>gagctc</u> GGTTTAAACAAAATATGCAG
guide952530 S	TATTCGATAACTGTAATTTATATT
guide952530 AS	AAACAATATAAATTACAGTTATCG
guide952497 S	TATTGTGGGGGCACATAGGGTTA
guide952497 AS	AAACTAACCCATATAGTGCCCCAC
guide951969 S	TATTATCTTATGCCCTTGTCATG
guide951969 AS	AAACCATGGACAAGGGCATAAGAT
1022700 KO P6	GACAATAAATATATTTTCTTTAACC
1022700 KO P7	GTGTGACATTTATGTGTAAATG
1022700 KO P8	GAGAATAACGACCGATATTTTATC
1022700 KO P9	GAACAAGAACAAAGTTCTAATTAG