

Construct name	Insert information	Vector	AA	MUT
pCIn-Per2NF	Per2 with NLS and FlagTag at C-terminus	pCIneo Sall/NotI		
pCIn-Per2mIK	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	IK	AA
pCIn-Per2mVLQDP	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	VLQDP	AAAAA
pCIn-Per2mIW	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	IW	AA
pCIn-Per2mLLM	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	LLM	AAA
pCIn-Per2mMMTYQ	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	MMTYQ	AAAAA
pCIn-Per2mPSRD	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	PSRD	AAAA
pCIn-Per2mVLK	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	VLK	AAA
pCIn-Per2mEKL	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	EKL	AAA
pCIn-Per2mQPRF	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	QPRF	AAAA
pCIn-Per2mQRREL	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	QRREL	AAAAA
pCIn-Per2NFmutA	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	see below	see below
pCIn-Per2NFmutB	Per2NF carrying mutation in CBD	pCIneo NheI/NotI	see below	see below

1130 1190  
 PER2 IKY**VLQDP**IWLLMANTDDSIMMTYQL**PSRD**LQAVLKEDQEKLKLLQRS**QPRF**TEG**QRREL**R  
 mutA ----AAAAA-----AAAA-----  
 mutB -----AAAA-----AAAAA--

Figure 1—source data 1