

Supplementary Table S1 pCMV-3UTR cloning site enzymes and alternative cloning possibilities

pCMV-3UTR cloning site enzyme	Isoschizomers	Compatible sticky ends*	Recognition sequences
AgeI	AsiGI, BshTI, 5' ...A●CCGG T...3' 3' ...T GGCC●A...5'	AccIII, Aor13HI, BseAI, Bsp13I, BspEI, Kpn2I, MroI	5' ...T●CCGG A...3' 3' ...A GGCC●T...5'
	CspAI, PinAI	Cfr9I, TspMI, XmaI, XmaCI MroNI, NgoMIV BsaWI	5' ...C●CCGG G...3' 3' ...G GGCC●C...5' 5' ...G●CCGG C...3' 3' ...C GGCC●G...5' 5' ...W●CCGG W...3' 3' ...W GGCC●W...5' 5' ...R●CCGG Y...3' 3' ...Y GGCC●R...5'
		Bse118I, BsrFI, BssAI, Cfr10I MreI SgrAI	5' ...CG●CCGG CG...3' 3' ...GC GGCC●GC...5' 5' ...CR●CCGG YG...3' 3' ...GY GGCC●RC...5'
SpeI	AhII, BcuI 5' ...A●CTAG T...3' 3' ...T GATC●A...5'	AspA2I, AvrII, BlnI, XmaJI AsuNHI, NheI XbaI	5' ...C●CTAG G...3' 3' ...G GATC●C...5' 5' ...G●CTAG C...3' 3' ...C GATC●G...5' 5' ...T●CTAG A...3' 3' ...A GATC●T...5'
EcoRI		MluCI, Sse9I, TasI, Tsp509I, TspEI MfeI, MunI AcsI, ApoI, XapI	5' ...●AATT ...3' 3' ... TTAA●...5' 5' ...CAATT G...3' 3' ...G TTAA●C...5' 5' ...RAATT Y...3' 3' ...Y TTAA●R...5'
XhoI	PaeR7I, 5' ...C●TCGA G...3' 3' ...G AGCT●C...5'	Ama87I, AvaI, BmeT110I, BsiHKCI, BsoBI, Eco88I, SmlI, SmoI Sall SgrDI AbsI PspXI	5' ...C●TCGA G...3' 3' ...G AGCT●C...5' 5' ...G●TCGA C...3' 3' ...C AGCT●G...5' 5' ...CG●TCGA CG...3' 3' ...GC AGCT●GC...5' 5' ...CC●TCGA GG...3' 3' ...GG AGCT●CC...5' 5' ...VC●TCGA GB...3' 3' ...BG AGCT●CV...5'

* from the SnapGene Viewer v7.0.1 (SnapGene software (www.snapgene.com)) enzyme database

B = C or G or T

R = A or G

V = A or C or G

W = A or T

Y = C or T