



Multiple Cloning Site – MCS

Available MCS for integration of coding DNA sequence for recombinant protein expression by standard cloning into InVivo's optimized TGE vector **pINV**.

MCS available in both directions (+) and (-) (= inverted MCS).

We strongly suggest to add a KOZAK sequence (GCC GCC ACC) in front of the ATG start codon.

pINV (+)

<u>NotI</u>	<u>XhoI</u>	<u>EcoRV</u>	<u>XbaI</u>	<u>EcoRI</u>	<u>BstBI</u>	<u>HindIII</u>
GCG GCG	GCC CGG	GCT CGA	CGA GCT	GAT CTA	ATC TAG	TAG ATC
AAT TTA	TCG AGC	AAG TTC	CTT GAA			

pINV (-)

<u>HindIII</u>	<u>BstBI</u>	<u>EcoRI</u>	<u>XbaI</u>	<u>EcoRV</u>	<u>XhoI</u>	<u>NotI</u>
AAG TTC	CTT GAA	CGA GCT	ATT TAA	CTA GAT	ATC CTA	TAG TAG
TCG AGC	AGC TCG	GGC CCG	CGC GCG			

Table 1: Additional information to MCS restriction enzyme sites, commonly used isoschizomers described in brackets.

RE site in MCS	cleaved compatible to
NotI	Eco52I (EagI)
XhoI	SalI
EcoRV	"blunt"
XbaI	XmaJI (AvrII), NheI, BcuI (SpeI)
EcoRI	MunI (MfeI)
BstBI (Bsp119I)	Bsu15I (ClaI)
HindIII	none