

SELECTION GUIDE – Vectors						
	Prokaryotic Gene Fusion Vectors		General Cloning Vectors		Gene Cartridge Vectors	RPAS Vector
	GST Gene Fusion Vectors (see page 377)	pEZZ 18 (see page 386)	pSL 1180 (see page 260)	M13 Vectors (see page 259)	pUC4K† (see page 260)	pCANTAB 5E (see page 0000)
Feature/Application						
Selectable Marker(s)	Amp	Amp	Amp		Amp	Amp
Blue/White Screening		X		X		
MCS (# unique sites)	vector- dependent	10	43	10		
f1 Origin			X	X		X
in vitro Transcription						
Prokaryotic Expression	X	X				X
Fusion Partner	GST	protein A				fd gene 3
Protease Cleavage Sites	X					
Promotor	tac	spa lacUV5		lac	Kan	lac
Induction	IPTG			IPTG		IPTG
RBS	X	X			X	X
ATG	X	X			X	X
Transcription Termination						
Translation Termination	X				X	X
Eukaryotic Expression						
Splicing/Polyadenylation						
Promotor Analysis						
Gene Cartridge					Kan	
cDNA Cloning						
Host Strains	E coli	E coli	E coli F'	E coli F'	E coli	E coli
Common Restriction Sites (# MCS Sites, where applicable/ Total # Sites in Plasmid)	BL21 (included)	β-gal α-acceptor				TG1 & HB2151 (included)
Acc I	*		2/2	1/1		0
Apa I	0/1	0	1/1	0		0
Ava I	*		2/3	0/2		1
BamH I			1/1	1/1		2
Eag I	*	0/1	1/1	0		0
EcoR I			1/1	1/1		1
Hinc II	*		2/2	1/1		0
Hind III	0	1/1	1/1	1/1		1
Hpa I	0/1	0	1/1	0		0
Kpn I	0	1/1	1/1	1/1		0
Mlu I	0/1	0/2	1/1	0		0
Nco I	0	0	1/1	0		0
Nhe I	0	0/1	1/1	0		0
Not I	*	0/1	1/1	0		1
Pst I	0/1	1/1	1/1	1/1		0
Sac I	0	1/1	1/1	1/1		0
Sac II	0	0	1/1	0		0
Sal I	*	1/1	1/1	1/1		0
Sfi I	0	0	1/1	0		1
Sma I	*	1/1	1/1	1/1		0
Sph I	0	1/1	1/1	1/1		0
Ssp I	0/2	0/5	1/3	0/6		3
Xba I	0	1/1	1/1	1/1		0
Xho I	*	0	1/1	0		1
Xma I	*	1/1	1/1	1/1		0
Note: For high-level transformation of host cells (E. coli), we recommend the "Hanahan protocol" [Hanahan, D., J. Mol. Biol. 166, 557 (1983).] * Sites are present in some but not all GST Fusion Vectors; consult map of specific vector of interest. † Restriction sites are not provided for pUC4K because the complete sequence of the vector is under dispute.						
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