



pETG-41K

T7 promoter --> lac operator XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCTCTAGAAA
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

Rbs His-tag
TAATTTTGTTTAACTTTAAGAAGGAGATATAACC**ATG**AAACATCACCATCACCATCACCCC
ATTAAACAAATTGAAATTCTTCCTCTATATGGTACTTTGTAGTGGTAGTGGTAGTGGGG
METLysHisHisHisHisHisHisPro

KpnI
ATGAAAATCGAAGAAGGTAAA...**1068bp**...GACGCGCAGACTCCCGGTAGCGGTACC
TACTTTTAGCTTCTTCCCTTT...**MBP**...CTGCGCGTCTGAGGGCCATCGCCATGG
METLysIleGluGluGlyLys...**356aa**...AspAlaGlnThrProGlySerGlyThr

attR1 -->
ATG**ACAAGTTT**GTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATA
TACT**GTTCAAACATGTT**TTTTCGACTTGCTCTTTGCATTTTACTATATTTATAGTTATAT
MetThrSerLeuTyr**LysLys**AlaGluArgGluThr***

TTAAATTAGATTTTGCATAAA...**1574bp**...TTGATATTTATATCATTTTAC
AATTTAATCTAAAACGTATTT...**Cam®**...**ccdB**...AACTATAAATATAGTAAAATG

<-- attR2 His-tag
GTTTCTCGTTCAGCTTT**CTTGTACAAAGTGGT**GACTCGAGCACCACCACCACCACCCTG
CAAAGAGCAAGTCGAAAGAACATG**TTTCACCA**CTGAGCTCGTGGTGGTGGTGGTGGTGAC

Single Cutters Listed by Site Order

158	XhoI	1739	EagI	3052	XbaI	4922	MstI
160	SciI	1739	NotI	3159	SgrAI	5686	Tth111I
291	SalI	1739	XmaIII	3315	SphI	5825	SapI
301	PstI	1874	Asp718I	4021	BstEII	6114	BsiI
552	SrfI	1874	Acc65I	4051	ApaI	6800	SpoI
1006	ScaI	1878	KpnI	4290	EcoRV	6800	NruI
1118	NcoI	2694	SunI	4346	HpaI	6834	ClaI
1419	EcoRI	2694	SplI	4904	BglI	7844	DraIII
1739	Eco52I	2831	RleAI				

Non Cutting Enzymes

AatII	AflIII	AgeI	AscI	AsuII	AvrII
Bsu36I	Csp45I	CspI	CvnI	Eam1105I	Ec1136II
Eco72I	EcoICRI	FseI	HindIII	I-PpoI	MfeI
Mlu113I	MstII	NdeI	NheI	PacI	PinAI
PmaCI	PmeI	SacI	SacII	SauI	SfiI
SnaBI	SpeI	SstI	SstII	StuI	SwaI