



## pETG-10K

T7 promoter --> Lac operator XbaI  
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA  
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

His-tag  
TAATTTTGTTTAACTTTAAGAAGGAGATATAACC**ATG**AAACATCACCATCACCATCACCCC  
ATTAAACAAATTGAAATTCTTCCTCTATATGGTACTTTGTAGTGGTAGTGGTAGTGGGG  
**MET**LysHisHisHisHisHisHisPro

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

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

<-- attR2 His-tag  
GTTTCTCGTTCAGCTTT**CTTG**TACAAAGTGGT**GACT**CGAGCACCACCACCACCACCCTG  
CAAAGAGCAAGTCGAAAGAACATG**TTTCACCA**CTGAGCTCGTGGTGGTGGTGGTGGTGAC

### Single Cutters Listed by Site Order

80	Bpu1102I	1118	NcoI	2408	ApaBI	4709	SapI
80	EspI	1419	EcoRI	2738	BclI	4998	BsiI
158	XhoI	1739	EagI	2905	BstEII	5373	Eco57I
160	SciI	1739	XmaIII	2935	ApaI	5684	SpoI
291	SalI	1739	Eco52I	3174	EcoRV	5684	NruI
301	PstI	1739	NotI	3230	HpaI	5718	ClaI
304	BspMI	1936	XbaI	3788	BglI	6027	XorII
410	Eco31I	2002	BglIII	3806	MstI	6027	PvuI
552	SrfI	2043	SgrAI	4570	Tth111I	6728	DraIII
1006	ScaI	2199	SphI				

### Non Cutting Enzymes

AatII	Acc65I	AflIII	AgeI	AscI	Asp718I
AsuII	AvrII	Bsu36I	Csp45I	CspI	CvnI
Eam1105I	Ecl136II	Eco72I	EcoICRI	FseI	HindIII
I-PpoI	KpnI	MfeI	Mlu113I	MstII	NdeI
NheI	PacI	PinAI	PmaCI	PmeI	RleAI
SacI	SacII	SauI	SfiI	SnaBI	SpeI
SplI	SstI	SstII	StuI	SunI	SwaI