



pETG-30A

T7 promoter --> lac operator XbaI
AATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAA
TTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATT

rbs His-tag
TTTTGTTTAACTTTAAGAAGGAGATATACC**ATG**AAACATCACCATCACCATCACAACACT
AAAACAAATTGAAATTCTTCCTCTATATGGTACTTTGTAGTGGTAGTGGTAGTGGTGTGA
METLysHisHisHisHisHisHisAsnThr

KpnI
AGTAGCAATTCCATGTCC..**627bp**..GGTGGCGACCATCCTCCAAAATCGGATGGTACC
TCATCGTTAAGGTACAGG...**GST**...CCACCGCTGGTAGGAGGTTTTAGCCTACCATGG
SerSerAsnSerMetSer..**209aa**..GlyGlyAspHisProProLysSerAspGlyThr

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

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

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

Single Cutters Listed by Site Order

80	EspI	1419	EcoRI	2111	SwaI	3586	BstEII
80	Bpu1102I	1739	NotI	2139	Csp45I	3616	ApaI
158	XhoI	1739	Eco52I	2139	AsuII	3855	EcoRV
160	SciI	1739	EagI	2549	SpeI	3911	HpaI
291	SalI	1739	XmaIII	2617	XbaI	5251	Tth111I
304	BspMI	1874	Asp718I	2683	BglII	6399	Eam1105I
550	XmaI	1874	Acc65I	2724	SgrAI	6769	PvuI
552	SrfI	1878	KpnI	2880	SphI	6769	XorII
552	SmaI	1967	RleAI	3089	ApaBI	7542	DraIII
1118	NcoI						

Non Cutting Enzymes

AatII	AflII	AgeI	AscI	AvrII	Bsu36I
ClaI	CspI	CvnI	Ecl136II	Eco72I	EcoICRI
FseI	HindIII	I-PpoI	MfeI	Mlu113I	MstII
NdeI	NheI	NruI	NsiI	PacI	PinAI
PmaCI	PmeI	SacI	SacII	SauI	SfiI
SnaBI	SplI	SpoI	SstI	SstII	StuI
SunI					