



pETG-60A

T7 promoter --> lac operator XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

RBS
TAATTTTGTTTAACTTTAAGAAGGAGATATAACC**ATG**AAAGAAATTTTGGCTGTAGTTGAA
ATTAAAACAAATTGAAATTCTTCCTCTATATGGTACTTTCTTTAAAACCGACATCAACTT
MetLysGluIleLeuAlaValValGlu

His-tag KpnI
GCCGTA.**1443bp**..GAAGCGACTAGTGGTTCCTGGTCATCACCATCACCATCACGGTACC
CGGCAT..**NusA**...CTTCGCTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGCCATGG
AlaVal..**481aa**..GluAlaThrSerGlySerGly**HisHisHisHisHisHis**GlyThr

attR1 -->
ATG**ACAAGTTT**GTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATA
TAC**TGTTCAAACATGTT**TTTTTCGACTTGCTCTTTGCATTTTACTATATTTATAGTTATAT
MetThrSerLeuTyr**LysLys**AlaGluArgGluThr***

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

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

Single Cutters Listed by Site Order

158	XhoI	1739	XmaIII	2207	StuI	4399	BstEII
160	SciI	1739	Eco52I	2586	RleAI	4429	ApaI
291	SalI	1739	NotI	3267	AatII	4724	HpaI
550	XmaI	1739	EagI	3324	Csp45I	6064	Tth111I
552	SmaI	1874	Acc65I	3324	AsuII	6203	SapI
552	SrfI	1874	Asp718I	3430	XbaI	7212	Eam1105I
1118	NcoI	1878	KpnI	3693	SphI	8355	DraIII
1419	EcoRI	1907	SpeI	3753	EcoNI		

Non Cutting Enzymes

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