



pETM-60

T7 promoter --> lac operator XbaI
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGAATATTGTTAAGGGGAGATCTTT

RBS
TAATTTTGTTTAACTTTAAGAAGGAGATATACC**ATG**AAAGAAATTTTGGCTGTAGTTGAA
ATTAAACAAATTGAAATCTTCCTCTATATGGTACTTTCTTTAAACCGACATCAACTT
MetLysGluIleLeuAlaValValGlu

His-tag
GCC...**1446bp**...GACGCGACTAGTGGTTCTGGTCATCACCATCACCATCACCCTCCGCG
CGG...**Nusa**...CTGCGCTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGAGGCGC
Ala...**482aa**...AspAlaThrSerGlySerGlyHisHisHisHisHisHisSerAla

TEV-site NcoI
GGTGAGAATCTTTATTTTCAG GCGCC**ATGG**CCAGATAGAG...**777bp**...GCGGCT
CCACTCTTAGAAATAAAAGTC CCGCGGTACCCGGTCTATCTC...**ABD**...CGCCGA
GlyGluAsnLeuTyrPheGln|GlyAla**Met**GlyGlnIleGlu...**259aa**...AlaAla

BamHI SalI NotI
KpnI EcoRI SacI EagI XhoI
AACAGGTGAGGTACCGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGA
TTGTCCACTCCATGGCCTAGGCTTAAGCTCGAGGCAGCTGTTTGAACGCCGGCGTGAGCT
AsnArg***

C-His-tag
GCACCACCACCACCACCCTGAGATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTT
CGTGGTGGTGGTGGTGGTGGTACTCTAGGCCGACGATTGTTTCGGGCTTTCCTTCGACTCAA
HisHisHisHisHisHisHis***

Single Cutters Listed by Site Order

158	XhoI	204	Asp718I	1046	SacII	3388	MluI
160	SciI	204	Acc65I	1046	SstII	3569	BstEII
166	XmaIII	208	KpnI	1077	SpeI	3599	ApaI
166	EagI	272	SplI	1324	BalI	3894	HpaI
166	NotI	272	SunI	1324	MscI	4452	BglI
166	Eco52I	804	AflII	1377	StuI	4470	MstI
179	SalI	859	Bsu36I	1756	RleAI	5234	Tth111I
188	Ecl136II	859	CvnI	2437	AatII	5373	SapI
188	EcoICRI	859	MstII	2494	Csp45I	5905	AlwNI
190	SstI	859	SauI	2494	AsuII	6563	XmaI
190	SacI	1013	NcoI	2600	XbaI	6565	SmaI
192	EcoRI	1044	Mlu113I	2863	SphI	7392	DraIII
198	BamHI						

Non Cutting Enzymes

AgeI	AhaIII	AscI	AvrII	Bsp1407I	CspI	DraI
Eam1105I	Eco31I	Eco72I	FseI	I-PpoI	MfeI	NdeI
NheI	PacI	PinAI	PmaCI	PmeI	PstI	ScaI
SfiI	SnaBI	SrfI	SwaI			