



pETM-90

T7 promoter -----> Lac operator XbaI
GAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAAT
CTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTA

rbs EcoRV
AATTTTGTTTAACTTTAAGAAGGAGATATCATGGAAATCAACGGCGTGAGATCGAGGAC
TTAAAACAAATTGAAATTCTTCCTCTATAGTACCTTTAGTTGCCGCACCTCTAGCTCCTG
METGluIleAsnGlyValGluIleGluAsp

MscI His-tag
ACCTTT..843bp..GACCTGTTCTCTGGCCATATGCACCATCATCATCATCATTCTTCT
TGGAAA...Ftr...CTGGACAAGAGACCGGTATACGTAGTAGTAGTAGTAAGAAGA
ThrPhe..281aa..AspLeuPheSerGlyHisMetHisHisHisHisHisHisSerSer

TEV-site Nco I
GGTGAGAATCTTTATTTTCAG GCGGCCATGGGTGCTCAAAAC...303bp...GTAGAT
CCACTCTTAGAAATAAAAGAC CCGCGTACCCACGAGTTTGT...RAGE...CATCTA
GlyGluAsnLeuTyrPheGlu|GlyAlaMETGlyAlaGlnAsn...101aa...ValAsp

NotI
SacII XhoI C-His-tag
TCTGCCTCTGAATAAGGTACCGCGCCGCACTCGAGCACCACCACCACCACCCTGAGAT
AGACGGAGACTTATTCCATGGCGCCGCGTGAGCTCGTGGTGGTGGTGGTGGTACTCTA
SerAlaSerGlu***

Single Cutters Listed by Order

158	XhoI	514	NcoI	1218	SacI	2705	BssHII
160	SciI	570	NdeI	1218	SstI	2800	HpaI
166	NotI	575	BalI	1471	EcoRV	4279	SapI
170	Mlu113I	575	MscI	1502	XbaI	5533	PstI
172	SacII	980	PinAI	1571	ClaI	5658	XorII
172	SstII	980	AgeI	1769	SphI	5658	PvuI
304	BamHI	1216	Ecl136II	1978	ApaBI	5768	ScaI
397	HindIII	1216	EcoICRI	2475	BstEII	6431	DraIII

Non Cutting Enzymes

AatII	AflII	AscI	AsuII	AvrII	BglII
BsmI	Bsp1407I	BspMI	Bsu36I	Csp45I	CspI
CvnI	Eco72I	EcoRI	FseI	I-PpoI	MfeI
MstII	NheI	NruI	NsiI	PacI	PmaCI
PmeI	RleAI	SauI	SfiI	SmaI	SnaBI
SpeI	SpI	SpoI	SrfI	StuI	SunI
SwaI	XmaI				