



pETM-50

T7 promoter --> Lac operator XbaI
GAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAAT
CTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTA

rhs
TTTGTTTAACTTTAAGAAGGAGATATACATATGAAAAAGATTTGGCTGGCG..585bp..TAC
AAACAAATTGAAATTCTTCCTCTATATGTATACTTTTCTAAACCGACCGC...DsbA..ATG
METLysLysIleTrpLeuAla..180aa..Tyr

His-tag
TTAAGCGAGAAAAAAGGATCAACTAGTGGTTCTGGTCATCACCATCACCATCACTCCGCGGGT
AATTCGCTCTTTTTTCTAGTTGATCACCAAGACCAGTAGTGGTAGTGGTAGTGAGGCGCCCA
LeuSerGluLysLysGlySerThrSerGlySerGlyHisHisHisHisHisHisSerAlaGly

TEV-site NcoI
GAGAATCTTTATTTTTCAG GCGGCCATGGGTGCTCAAAACATCACAGCC...294bp...GTA
CTCTTAGAAATAAAAAGTC CCGCGGTACCCACGAGTTTGTAGTGTCGG....RAGE...CAT
GluAsnLeuTyrPheGln|GlyAlaMETGlyAlaGlnAsnIleThrAla....98aa...Val

NotI
KpnI EagI XhoI C-His-tag
GATTCTGCCTCTGAATAAGGTACCGCGGCCGCACTCGAGCACCACCACCACCACTGAGAT
CTAAGACGGAGACTTATTCCATGGAGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGACACTA
AspSerAlaSerGlu*** HisHisHisHisHisHisHis***

Single Cutters Listed by Site Order

158	XhoI	304	BamHI	1110	PinAI	4023	SapI
160	SciI	397	HindIII	1212	NdeI	4998	NruI
166	Eco52I	514	NcoI	1250	XbaI	4998	SpoI
166	NotI	578	SpeI	1357	SgrAI	5032	ClaI
166	EagI	600	AflII	1513	SphI	5213	XmaI
166	XmaIII	716	MfeI	1722	ApaBI	5215	SmaI
173	Acc65I	734	PstI	2038	MluI	5341	XorII
173	Asp718I	818	BspMI	2052	BclI	5341	PvuI
177	KpnI	1099	AscI	3102	BglI	6042	DraIII
257	Eco31I	1110	AgeI	3120	MstI		

Non Cutting Enzymes

AatII	AhaIII	AsuII	AvrII	BalI	Bsp1407I
Bsu36I	Csp45I	CspI	CvnI	DraI	Eam1105I
Ecl136II	Eco72I	EcoICRI	EcoRI	FseI	I-PpoI
MscI	MstII	NheI	PacI	PmaCI	PmeI
RleAI	SacI	SalI	SauI	ScaI	SfiI
SnaBI	SplI	SrfI	SstI	StuI	SunI
SwaI					