



Source: Arie Geerlof  
 geerlof@embl-hamburg.de

## pETG-82A

T7 promoter --> Lac operator XbaI  
CGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAA  
GCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTT

rbs  
TAATTTTGTTTAACTTTAAGAAGGAGATATACCATGAAAGATGACGCGGCAATTCAACAA  
ATTAAACAAATTGAAATTCTTCCTCTATATGGTACTTTCTACTGCGCCGTTAAGTTGTT  
METLysAspAspAlaAlaIleGlnGln

His-tag KpnI  
ACGTTAGCCAAA...**618bp**...AGTGGTTCTGGTCATCACCATCACCATCACGGTACC  
TGCAATCGGTTT...**LL-Dsbc**...TCACCAAGACCAGTAGTGGTAGTGGTAGTGCCATGG  
ThrLeuAlaLys...**206aa**...SerGlySerGlyHisHisHisHisHisHisSerAla

attR1 -->  
ATG**ACAAGTTT**GTACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATA  
CAT**TGTTCAAACATGTT**TTTTCGACTTGCTCTTTGCATTTTACTATATTTATAGTTATAT  
MetThrSerLeuTyr**LysLys**AlaGluArgGluThr\*\*\*

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

<-- attR2  
GTTTCTCGTTCAGCTTT**CTTGTAACAAGTGGT**GACTCGAGCACCACCACCACCACCCTG  
CAAAGAGCAAGTCGAAAGAACATG**TTTCACCA**CTGAGCTCGTGGTGGTGGTGGTGGTGAC

### Single Cutting Enzymes Listed by Site Order

158	XhoI	1739	Eco52I	2608	XbaI	3846	EcoRV
160	SciI	1739	EagI	2674	BglII	3902	HpaI
291	SalI	1739	NotI	2715	SgrAI	5242	Tth111I
550	XmaI	1739	XmaIII	2871	SphI	5381	SapI
552	SmaI	1874	Acc65I	2931	EcoNI	6390	Eam1105I
552	SrfI	1874	Asp718I	3080	ApaBI	6760	XorII
1118	NcoI	1878	KpnI	3410	BclI	6760	PvuI
1419	EcoRI	1907	SpeI	3607	ApaI	7533	DraIII

### Non Cutting Enzymes

AatII	AflII	AgeI	AscI	AsuII	AvrII
Bsu36I	ClaI	Csp45I	CspI	CvnI	Ecl136II
Eco72I	EcoICRI	FseI	HindIII	I-PpoI	MfeI
Mlu113I	MstII	NdeI	NheI	NruI	NsiI
PacI	PinAI	PmaCI	PmeI	RleAI	SacI
SacII	SauI	SfiI	SnaBI	SplI	Spol
SstI	SstII	StuI	SunI	SwaI	