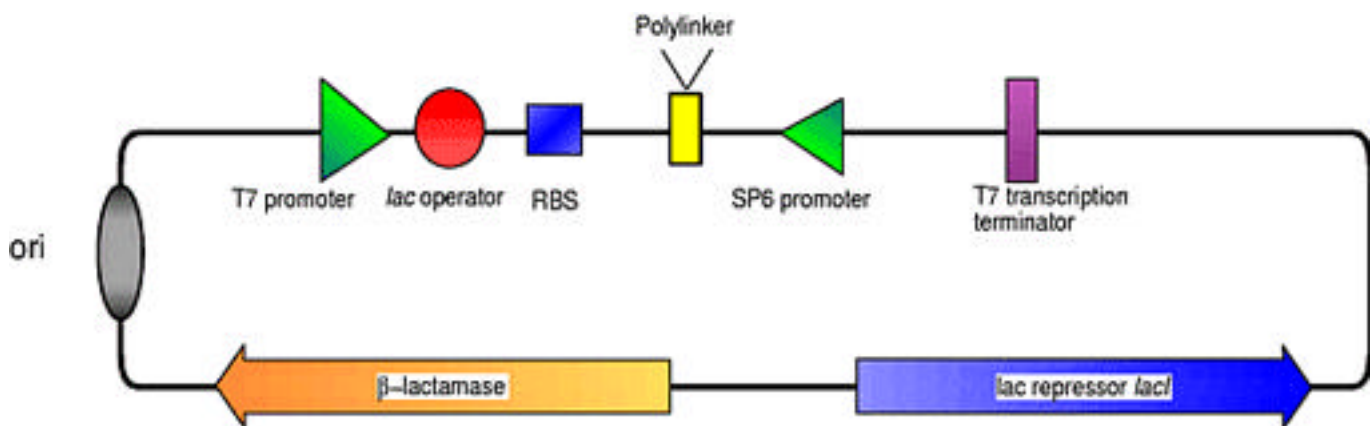


pBAT4 expression vector



Features	position
T7 promoter	1-17
Lac operator	21-42
T7 gene 10 ribosome binding site	50-80
Polylinker	83-152
SP6 promoter	157-175
T7 transcription terminator	254-295
LacI gene	705-1786 (reversed)
-Lactamase gene	2556-3406
Origin of replication	3481-4176

Reference:

Peränen J., Rikkonen M., Hyvönen M. & Kääriäinen L. (1996) T7 vectors with modified T7lac promoter for expression of proteins in *Escherichia coli*. *Anal. Biochem.* **236**, 371-373.

pBAT4

T7 promoter --> Lac operator XbaI
ATTAATACGACTCACTATAGGGAATTGTGAGCGGATAACAATTCCTCTAGAAATAATTTT
TAATTATGCTGAGTGATATCCCTTAACACTCGCCTATTGTTAAGGAGATCTTTATTAATA

rbs NcoI EcoRI SalI XhoI BamHI
GTTTAACTTTAAGAAGGAGATATATCC**ATG**GATATCGAATTCGTCGACCTCGAGGGATCC
CAAATTGAAATTCTTCCTCTATATAGGTACCTATAGCTTAAGCAGCTGGAGCTCCCTAGG
METAspIleGluPheValAspLeuGluGlySer

XbaI NotI NsiI HindIII <-- SP6 promoter
GGGCCCTCTAGATGCGGCCGCATGCATAAGCTTGAGTATTCTATAGTGTCACCTAAATCC
CCCGGAGATCTACGCCGGCGTACGTATTCGAACTCATAAGATATCACAGTGGATTTAGG
GlyProSerArgCysGlyArgMetHisLysLeuGluTyrSerIleValSerProLysSer

Single Cutters Listed by Site Order

84	NcoI	146	HindIII	1250	BstEII	1987	Eco56I
95	EcoRI	237	EspI	1418	BclI	1989	NaeI
101	SalI	237	Bpu1102I	1432	MluI	2169	NdeI
107	XhoI	314	AccIII	1857	PflMI	2424	AatII
109	SciI	314	BspMII	1867	Asp718I	2743	XmnI
113	BamHI	623	BspMI	1867	Acc65I	2862	ScaI
133	NotI	634	PstI	1871	KpnI	3277	Eco31I
133	EagI	794	NarI	1875	Ecl136II	3343	Eam1105I
133	Eco52I	795	EheI	1875	EcoICRI	3822	AlwNI
133	XmaIII	797	BbeI	1877	SacI	4348	SapI
144	NsiI	1021	BssHII	1877	SstI		

Non Cutting Enzymes

AflIII	AgeI	AscI	AsuII	AvrII	BalI
BglIII	BsmI	Bsp1407I	Bsu36I	ClaI	Csp45I
CspI	CvnI	DraIII	Eco47III	Eco72I	EcoNI
FseI	HpaI	I-PpoI	MfeI	Mlu113I	MscI
MstII	NheI	NruI	PacI	PinAI	PmaCI
PmeI	RleAI	SacII	SauI	SfiI	SgrAI
SmaI	SnaBI	SpeI	SplI	SpoI	SrfI
SstII	StuI	SunI	SwaI	Tth111I	XmaI