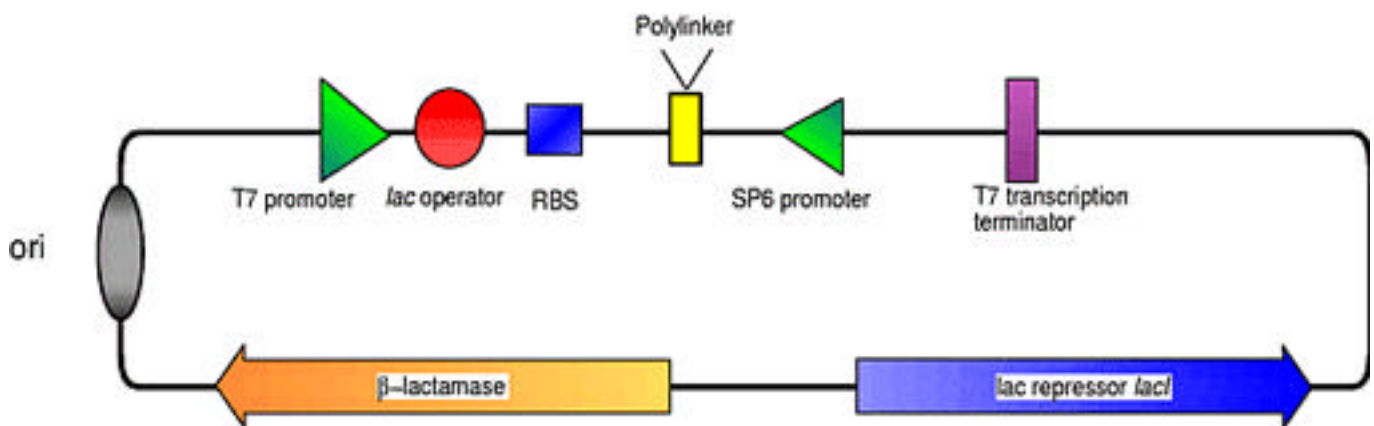


## pBAT4 expression vector



### Features

T7 promoter  
 Lac operator  
 T7 gene 10 ribosome binding site  
 Polylinker  
 SP6 promoter  
 T7 transcription terminator  
 LacI gene  
 -Lactamase gene  
 Origin of replication

### position

1-17  
 21-42  
 50-80  
 83-152  
 157-175  
 254-295  
 705-1786 (reversed)  
 2556-3406  
 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  
**MET**AspIleGluPheValAspLeuGluGlySer

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