

Data Sheet

pASK-IBA32

Cat. No.: 2-1332-000

Lot No.: 1332 -

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Description	Expression plasmid. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be secreted into the periplasm.
Affinity tag	6xHistidine-tag for the purification of recombinant protein. The affinity tag is fused to the C-terminus of the recombinant protein.
Secretion	The ompA signal sequence directs the expressed protein into the periplasmic space and will be cleaved off during the translocation process
Bacterial Expression	Expression is induced upon addition of 200 μ g anhydrotetracycline (order no.: 2-0401-001; 2-0401-002) per 1 liter <i>E. coli</i> shaking culture (A ₅₅₀ = 0.5).
Expression strain	Any <i>E. coli</i> strain. The <i>tet</i> -promoter works independently from the genetic background of <i>E. coli</i> .
Resistance	Ampicillin
Form	5 μg, dissolved in 10 mM Tris/HCl pH 8.0, 1 mM EDTA; 20 μl
Concentration	250 ng/μl
Storage	4 °C for frequent usage, -20 °C for long-term storage

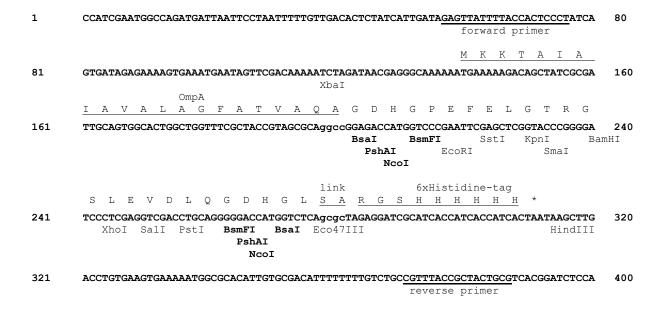
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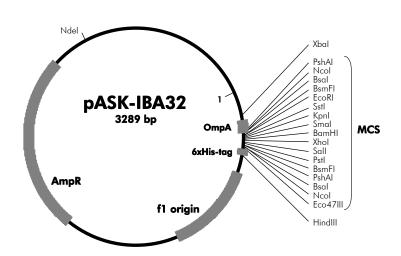
Multiple Cloning Site of pASK-IBA32



Please note: Restriction enzymes in bold cut twice. The *Bsa*I sites (isoschizomer of *Eco31*I) at each end of the multiple cloning site are useful for precise and oriented insertion of the recombinant gene by one cleavage reaction only. The "link" contains a restriction site which can be used e.g. for subcloning the recombinant gene into pEXPR-IBA vectors for mammalian expression. During secretion of the recombinant protein into the periplasmic space, the OmpA signal sequence will be cleaved off. The processed protein will start with the first amino acid after the last Alanine of the signal sequence.

Features of pASK-IBA32

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
OmpA signal sequence	139	201
multiple cloning site	202	282
6xHistidine-tag	283	312
reverse primer binding site	371	387
f1 origin	400	838
AmpR resistance gene	987	1847
tet-repressor	1857	2480
Col E1origin	2633	3221
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Cloning prime	mers for the precise cloning using Bsal or Eco31I Sequencing primers:		
Forward:	(N ₂₀) 5'- NNNNNNGGTCTCNG GCC NNN NNN Forward:5'- GAGTTATTTTACCACTCO	CCT -3'	
Reverse:	5'- NNNNNNGGTCTCNGC GCT NNN NNN Reverse:5'- CGCAGTAGCGGTAAACG	-3'	