

Data Sheet

pASK-IBA44

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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	 The recombinant protein will contain two affinity tags: Strep-Tactin [®] affinity tag (Strep-tag II [®]) for the purification of recombinant protein via Strep-Tactin resins. The Strep-tag is fused to the N-terminus of the recombinant protein. 6xHistidine-tag for the purification of recombinant protein via Ni-NTA resins. The 6xHistidine-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 μg 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	

For research use only

Important licensing information

This product is based on *Strep*-tag, 6xHistidine-tag and tet promoter technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at http://www.iba-lifesciences.com/patents.html or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

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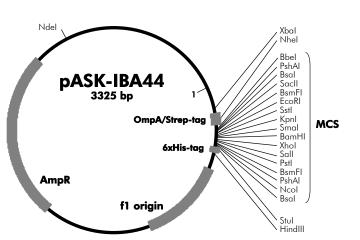
Multiple Cloning Site of pASK-IBA44



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 Ala-Ser-linker.

Features of pASK-IBA44

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
OmpA signal sequence	139	201
Strep-tag	202	231
multiple cloning site	232	318
6xHistidine-tag	319	348
reverse primer binding site	407	423
f1 origin	436	874
AmpR resistance gene	1023	1883
tet-repressor	1893	2516
Col E1origin	2669	3257



Cloning primers for the precise cloning using <i>Bsal</i> or <i>Eco31</i> I		Sequencing primers:	
Forward:	(N ₂₀) 5'- NNNNNNGGTCTCNGC GCC NNN NNN	Forward:5'- GAGTTATTTTACCACTCCCT -3'	
Reverse:	(N ₂₀) 5'- NNNNNNGGTCTCNG GCC NNN NNN	Reverse:5'- CGCAGTAGCGGTAAACG -3'	