

Data Sheet

pASK-IBA6

Cat. No.: 2-1305-000

Lot No.: 1305-

IBA Headquarters IBA GmbH

Rudolf-Wissell-Str. 28 37079 Goettingen Germany Tel. +49 (0) 551-5 06 72-0 Fax +49 (0) 551-5 06 72-181

IBA US Distribution Center

1328 Ashby Road Olivette, MO 63132 USA Tel. 1-877-IBA-GmbH (1-877-422-4624) Fax 1-888-531-6813

E-mail: info@iba-lifesciences.com http://www.iba-lifesciences.com

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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	Strep-Tactin affinity tag (Strep-tag II) for the purification of recombinant protein. The affinity tag is fused to the N-terminus of the recombinant protein and can be removed by cleavage with factor Xa.	
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	

For research use only

Important licensing information

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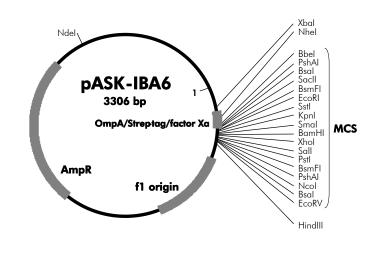
Multiple Cloning Site of pASK-IBA6



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-IBA6

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
OmpA signal sequence	139	201
Strep-tag	202	231
factor Xa cleavage site	232	243
multiple cloning site	244	320
reverse primer binding site	388	404
f1 origin	417	855
AmpR resistance gene	1004	1864
tet-repressor	1874	2497
Col E1origin	2650	3238
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Cloning prim	ners for the precise cloning using <i>Bsa</i> l or <i>Eco31</i> l	Sequencing primers:
Forward: Reverse:	5'- NNNNNNGGTCTCNG CGC NNN NNN (N_{20}) 5'- NNNNNNGGTCTCNTA TCA NNN NNN	Forward:5'- GAGTTATTTTACCACTCCCT -3' Reverse:5'- CGCAGTAGCGGTAAACG -3'