

## **Data Sheet**

# pASK-IBA2

Cat. No.: 2-1301-000

Lot No.: 1301-

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Last date of revision March 2012 Version 1301-8

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 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 $\mu$ g anhydrotetracycline (order no.: 2-0401-001; 2-0401-002) per 1 liter <i>E. coli</i> shaking culture (A <sub>550</sub> = 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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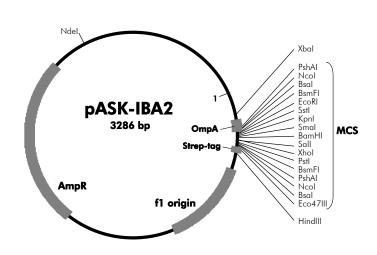
### **Multiple Cloning Site of pASK-IBA2**



**Please note:** Restriction enzymes in bold cut twice. The *Bsal* 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. 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-IBA2

from bp	to bp
37	72
57	76
139	201
202	282
283	312
368	384
397	835
984	1844
1854	2477
2630	3218
	37 57 139 202 283 368 397 984 1854



Cloning primers for the precise cloning using Bsal or Eco311		ers for the precise cloning using Bsal or Eco311	Sequencing primers:
	Forward: Reverse:	5'- NNNNNNGGTCTCNG GCC NNN NNN $(N_{20})$ 5'- NNNNNNGGTCTCNGC GCT NNN NNN	Forward:5'- GAGTTATTTTACCACTCCCT -3' Reverse:5'- CGCAGTAGCGGTAAACG -3'