

# **Data Sheet**

# pASK-IBA4C

Cat. No.: 2-1323-000

Lot No.: 1323-

# 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

Last date of revision March 2012 Version 1323-9

Expression plasmid. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be secreted into the periplasm.	
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.	
The ompA signal sequence directs the expressed protein into the periplasmic space and will be cleaved off during the translocation process	
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).	
Any <i>E. coli</i> strain. The <i>tet</i> -promoter works independently from the genetic background of <i>E. coli</i> .	
Chloramphenicol  Note: The CamR resistance gene codes for homotetrameric chloramphenicol acetyltransferase (MW of the monomer = 26.6 kDa) which is predominantly expressed in the cytosol of E.coli transformed with this plasmid	
5 μg, dissolved in 10 mM Tris/HCl pH 8.0, 1 mM EDTA; 20 μl	
250 ng/μl	
4 °C for frequent usage, -20 °C for long-term storage	

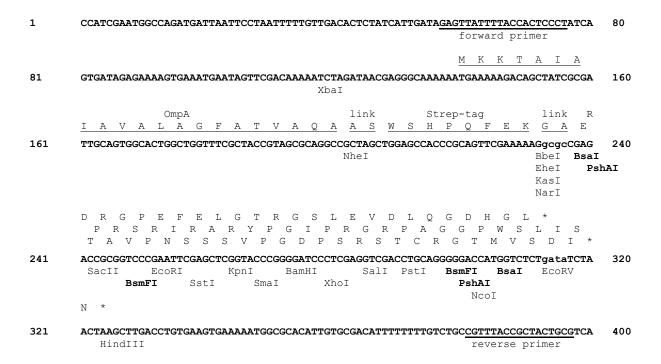
### For research use only

#### Important licensing information

This product is based on Strep-tag 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 <a href="http://www.iba-lifesciences.com/patents.html">http://www.iba-lifesciences.com/patents.html</a> or upon inquiry at <a href="mailto:info@iba-lifesciences.com">info@iba-lifesciences.com</a> 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.

#### Trademark information

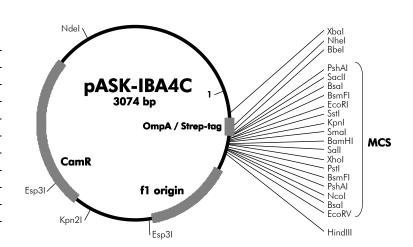
## **Multiple Cloning Site of pASK-IBA4C**



**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-IBA4C

	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	313
reverse primer binding site	381	397
f1 origin	410	848
CamR resistance gene	970	1629
Tet-repressor	1642	2265
Col E1origin	2418	3006
·		



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