

## Data Sheet

**IBA Headquarters**  
IBA GmbH  
Rudolf-Wissell-Str. 28  
D-37079 Göttingen  
Germany  
Tel. +49 (0) 551-5 06 72-0  
Fax +49 (0) 551-5 06 72-181  
E-mail [info@iba-go.com](mailto:info@iba-go.com)  
<http://www.iba-go.com>

**IBA US Distribution Center**  
10748 Indian Head Industrial  
Blvd.  
St. Louis, MO 63132  
USA  
Tel. 1-877-IBA-GmbH  
(1-877-422-4624)  
Fax 1-888-531-6813  
E-mail [info@iba-go.com](mailto:info@iba-go.com)  
<http://www.iba-go.com>

# pASK-IBA7plus

Cat. No. : 2-1406-000

Lot No.: 1406-

Last date of revision

May 10

Version 1406-8

Description	Expression plasmid. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be localized in the cytoplasm.
Affinity tag	<i>Strep-Tactin</i> <sup>®</sup> affinity tag ( <i>Strep-tag II</i> <sup>®</sup> ) 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.
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 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-go.com/patents.html> or upon inquiry at [info@iba-go.com](mailto:info@iba-go.com) or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Göttingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

### Trademark information

The owners of trademarks marked by "®" or "TM" are identified at <http://www.iba-go.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

## Multiple Cloning Site of pASK-IBA7plus

```

1      CCATCGAATGGCCAGATGATTAATTCCTAATTTTGTGACTCTATCATTGATAGAGTTATTTTACCACTCCCTATC 79
                                     forward primer

80     AGTGATAGAGAAAAGTGAATGAATAGTTCGACAAAAATCTAGAAAATAATTTTGTTTAACTTTAAGAAGGAGATATACAA 159
                                     XbaI

                                     R P R S R I R A R Y P
link   Strep-tag   factorXa   E T A V P N S S S V P
M A S W S H P Q F E K I E G R R D R G P E F E L G T R

160    ATGGCTAGCTGGAGCCACCCGCGAGTTCGAAAAAATCGAAGGgcgcCGAGACCGCGGTCCCGAATTCGAGCTCGGTACCCG 239
      NheI                                     BbeI  BsaI  BsmFI  SstI  KpnI
                                             EheI  PshAI  EcoRI  SmaI
                                             KasI  SacII
                                             NarI

      G I P R G R P A G G P W S L I S N *
      G D P S R S T C R G T M V S D I *
      G S L E V D L Q G D H G L *

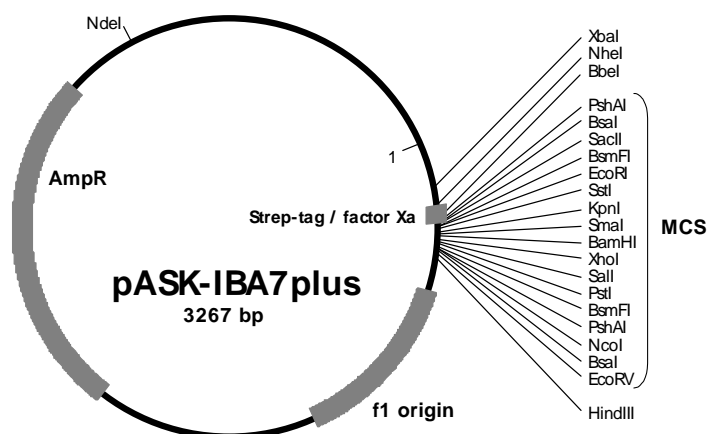
240    GGGATCCCTCGAGGTCGACCTGCAGGGGACCATGGTCTCTgataCTAACTAAGCTTGACCTGTGAAGTGAAAAATGGC 319
      BamHI  SalI  PstI  BsmFI  BsaI  EcoRV  HindIII
      XhoI
      PshAI
      NcoI

320    GCACATTGTGCGACATTTTTTTTGTCTGCGTTTACCGCTACTGCGTACGGATCTCCACGGCCCTGTAGCGGCGCATT 399
                                     reverse primer
  
```

Please note: Restriction enzymes in bold cut twice. The *BsaI* sites (isoschizomer of *Eco31I*) 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.

## Features of pASK-IBA7plus

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
Strep-tag	160	192
factor Xa cleavage site	193	204
multiple cloning site	205	281
reverse primer binding site	349	365
f1 origin	378	816
AmpR resistance gene	965	1825
Tet-repressor	1835	2458
Col E1 origin	2611	3199



Cloning primers for the precise cloning using <i>BsaI</i> or <i>Eco31I</i>	Sequencing primers:
Forward: 5'- NNNNNNGGTCTCNG CGC <sup>(N<sub>20</sub>)</sup> NNN NNN...	Forward: 5'- GAGTTATTTTACCACTCCCT -3'
Reverse: 5'- NNNNNNGGTCTCNTA TCA <sup>(N<sub>20</sub>)</sup> NNN NNN...	Reverse: 5'- CGCAGTAGCGGTAAACG -3'