

## Data Sheet

### pASK-IBA7C

Cat. No.: 2-1326-000

Version: 10.3

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<b>Description</b>	Expression plasmid. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be localized in the cytoplasm.
<b>Affinity tag</b>	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.
<b>Bacterial Expression</b>	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 ( $A_{550} = 0.5$ ).
<b>Expression strain</b>	Any <i>E. coli</i> strain. The <i>tet</i> -promoter works independently from the genetic background of <i>E. coli</i> .
<b>Resistance</b>	Chloramphenicol <b>Note:</b> The CamR resistance gene codes for homotetrameric chloramphenicol acetyltransferase (MW of the monomer = 26.6 kDa) which is predominantly expressed in the cytosol of <i>E.coli</i> transformed with this plasmid
<b>Form</b>	5 µg, dissolved in 20 µl TE buffer, pH 8,0; 10 mM Tris-HCl, 1 mM EDTA
<b>Concentration</b>	250 ng/µl
<b>Stability</b>	12 months after shipping
<b>Storage</b>	recommended: 2-8 °C for frequent usage, -20 °C for long-term storage
<b>Shipping</b>	room temperature
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.



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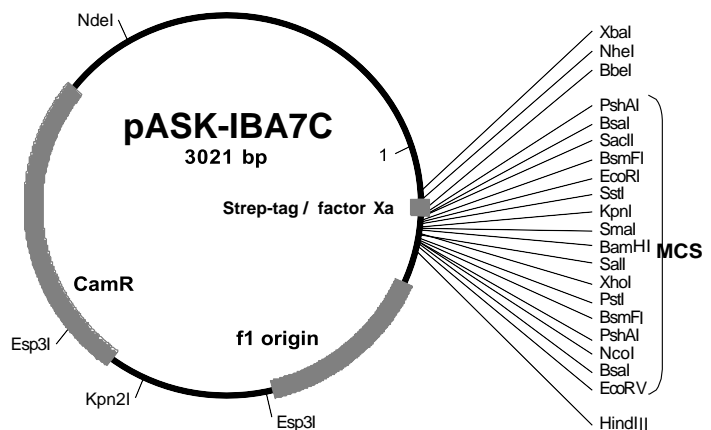
# Multiple Cloning Site of pASK-IBA7C

1	<b>CCATCGAATGGCCAGATGATTAATTCCTAATTTTGTGTGACACTCTATCATTGATAGAGTTATTTTACCACCTCCCTATCA</b> <i>forward primer</i>	80
<p>link M A S W S H P</p>		
81	<b>GTGATAGAGAAAAGTGAAATGAATAGTTCGACAAAAATCTAGATAACGAGGGCAAAAAATGGCTAGCTGGAGCCACCCGC</b> <i>XbaI NheI</i>	160
<p>R P R S R I R A R Y P G I P R G R P  Strep-tag@II factor Xa E T A V P N S S S S V P G D P S R S T C  Q F E K I E G R R D R G P E F E L G T R G S L E V D L</p>		
161	<b>AGTTCGAAAAATCGAAGGgcgcCGAGACCGCGGTCCCGAATTCGAGCTCGGTACCCGGGGATCCCTCGAGGTCGACCTG</b> <i>BbeI BsaI BsmFISstI KpnI BamHI SalI PstI</i> <i>EheI PshAI EcoRI SmaI XhoI</i> <i>KasI SacII</i> <i>NarI</i>	240
<p>A G G P W S L I S N *  R G T M V S D I *  Q G D H G L *</p>		
241	<b>CAGGGGACCATGGTCTCTgataCTTAAGCTTGACCTGTGAAGTGA AAAATGGCGCACATTGTGCGACATTTTTTT</b> <i>BsmFI BsaI EcoRV HindIII</i> <i>PshAI</i> <i>NcoI</i>	320
321	<b>TGTCTGCGTTTACCCTACTGCGTCA CGGATCTCCACGCGCCTGTAGCGGCGCAATAAGCGCGCGGGTGTGGTGGTT</b> <i>reverse primer</i>	400

**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-IBA7C

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
Strep-tag®II	139	171
factor Xa cleavage site	172	183
multiple cloning site	184	260
reverse primer binding site	328	344
f1 origin	357	795
CamR resistance gene	917	1576
Tet-repressor	1589	2212
Col E1origin	2365	2953



### Cloning primers for the precise cloning using *BsaI* or *Eco31I*

Forward: 5'- NNNNNNGGTCTCNG CGC (N<sub>20</sub>) NNN NNN...  
Reverse: 5'- NNNNNNGGTCTCNTA TCA (N<sub>20</sub>) NNN NNN...

### Sequencing primers:

Forward: 5'- GAGTTATTTTACCACCTCCCT -3'  
Reverse: 5'- CGCAGTAGCGGTAAACG -3'