

# **Data Sheet**

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# pASK-IBA5C

Cat. No.: 2-1324-000 Version: 10.3

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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 localized in the cytoplasm.
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.
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	Chloramphenicol  Note: The Cam <sup>R</sup> 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
Form	5 μg, dissolved in 20 μl TE buffer, pH 8,0: 10 mM Tris-HCl, 1 mM EDTA
Concentration	250 ng/μl
Stability	12 months after shipping
Storage	recommended: 2-8 °C for frequent usage, -20 °C for long-term storage
Shipping	room temperature
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP].  A Material Safety Data Sheet is provided.



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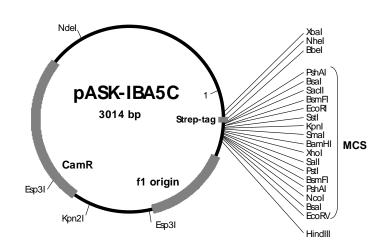
## **Multiple Cloning Site of pASK-IBA5C**

1  ${\tt CCATCGAATGGCCAGATGATTAATTCCTAATTTTTGTTGACACTCTATCATTGATA\underline{GAGTTATTTTTACCACTCCCT}{\tt ATCA}{\tt ATCA}{$ link Strep-tag®II A S W S H P  ${\tt GTGATAGAGAAAAGTGAAATGAATAGTTCGACAAAAATCTAGATAACGAGGGCAAAAAATTGGCTAGCTGGAGCCACCCGC}$ 81 160 XbaI NheI D R G P E F E L G T R G S L E V D L Q G link R P R S R I R A R Y P G I P R G R P A G G FEKGAETAVPNSSSVPGDPSRSTCRG 161 BamHI BbeI **BsaI** BsmFI SstI KpnI SalI PstI BsmFI EheI PshAI EcoRI SmaI KasI SacII NarI D H G L \* P W S L I S N T M V S D I 241 320 NcoI EcoRV HindIII 321 400 reverse primer

**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.

### Features of pASK-IBA5C

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
Strep-tag®II	139	171
multiple cloning site	172	253
reverse primer binding site	321	337
f1 origin	350	788
CamR resistance gene	910	1569
Tet-repressor	1582	2205
Col E1origin	2358	2946



Cloning prin	ners for the precise cloning using Bsal or Eco311	Sequencing primers:	
Forward:	5'- NNNNNNGGTCTCNGC GCC (N <sub>20</sub> ) NNN NNN	Forward: 5'- GAGTTATTTTACCACTCCCT -3'	
Reverse:	5'- NNNNNNGGTCTCNTA TCA NNN NNN	Reverse: 5'- CGCAGTAGCGGTAAACG -3'	