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# **Data Sheet**

# pASK-IBA5C

Cat. No.: 2-1324-000

Version: 11.0 Revision Date: 11.06.2021

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-tag <sup>®</sup> II fused to the N-terminus of the recombinant protein.	
Bacterial Expression	Expression is induced upon addition of 200 $\mu$ g anhydrotetracycline per 1 liter <i>E. coli</i> shaking culture (A <sub>550</sub> = 0.5).	
Expression strain	in Any <i>E. coli</i> strain. The <i>tet</i> -promoter works independently from the genetic background of <i>E. coli</i> .	
Resistance	Chloramphenicol <b>Note:</b> 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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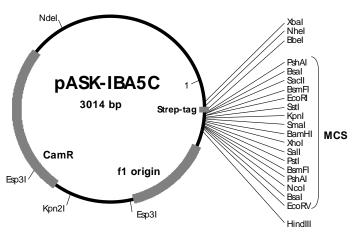
## Multiple Cloning Site of pASK-IBA5C

1	CCATCGAATGGCCAGATGATTAATTCCTAATTTTTGTTGACACTCTATCATTGATA <u>GAGTTATTTTACCACTCCCT</u> ATCA 80		
	forward primer		
	link Strep-tag <sup>®</sup> II M <u>A S</u> <u>W S H P</u>		
81	GTGATAGAGAAAAGTGAAATGAATAGTTCGACAAAAATCTAGATAACGAGGGGCAAAAAATGGCTAGCTGGAGCCACCCGC 160 Xbal Nhel		
	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 Q F E K G A E T A V P N S S S V P G D P S R S T C R G		
161	AGTTCGAAAAAGgcgcCGAGACCGCGGTCCCGAATTCGAGGTCGGCTGGGGGATCCCTCGAGGTCGACCTGCAGGGGG 240 BbeI BsaI BsmFI SstI KpnI BamHI Sall PstI BsmFI EheI PshAI EcoRI SmaI XhoI PshAI KasI SacII NarI		
	DHGL* PWSLISN* TMVSDI*		
241	ACCATGGTCTCTgataTCTAACTAAGCTTGACCTGTGAAGTGAAAAATGGCGCACATTGTGCGACATTTTTTTGTCTGC 320 NcoI EcoRV HindIII BsaI		
321	CGTTTACCGCTACTGCG CACGGATCTCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTGGTGGTGGCGCGCA 400   reverse primer 900		

**Please note:** Restriction enzymes in bold cut twice. The *Bsa*l 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 for subcloning.

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
Strep-tag <sup>®</sup> 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
ColE1 origin	2358	2946

### Features of pASK-IBA5C



Cloning prin	ners for the precise cloning using <i>Bsa</i> l or <i>Eco31</i> I	Sequencing primers:	
Forward:	5'- NNNNNGGTCTCNGC GCC NNN NNN	Forward: 5'- GAGTTATTTTACCACTCCCT -3'	
Reverse:	(N <sub>20</sub> ) 5'- NNNNNGGTCTCNTA TCA NNN NNN	Reverse: 5'- CGCAGTAGCGGTAAACG -3'	