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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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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®II fused to the N-terminus of the recombinant protein.
Bacterial Expression	Expression is induced upon addition of 200 µg anhydrotetracycline 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	Chloramphenicol Note: The Cam ^R 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.

For research use only

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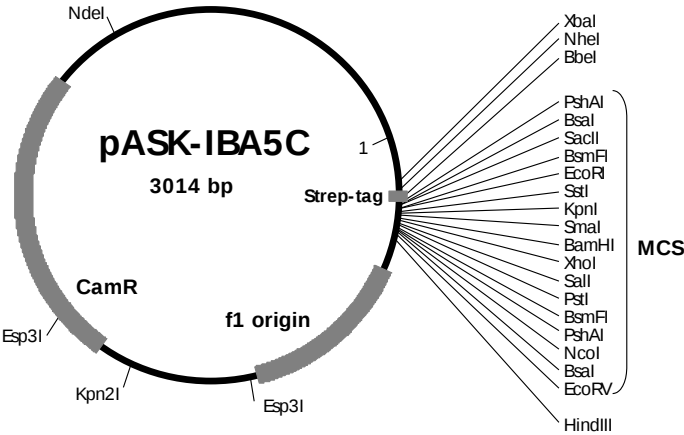
Multiple Cloning Site of pASK-IBA5C

1	CCATCGAATGGCCAGATGATTAATTCCTAATTTTGTGACACTCTATCATTGATAGAGTTATTTTACCCTCCCTATCA	80
	forward primer	
	link Strep-tag®II	
	M A S W S H P	
81	GTGATAGAGAAAAGTGAATGAATAGTTCGACAAAAATCTAGATAACGAGGGCAAAAAATGGCTAGCTGGAGCCACCCGC	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	
	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	AGTTCGAAAAAGgcgcCGAGACCGCGTCCCGAATTCGAGCTCGGTACCCGGGGATCCCTCGAGGTCGACCTGCAGGGGG	240
	BbeI BsaI BsmFI SstI KpnI BamHI SalI PstI BsmFI	
	EheI PshAI EcoRI SmaI XhoI PshAI	
	KasI SacII	
	NarI	
	D H G L *	
	P W S L I S N *	
	T M V S D I *	
241	ACCATGGTCTCTgataTCTAACTAAGCTTGACCTGTGAAGTGAAAAATGGCGCACATTGTGCGACATTTTTTTTGTCTGC	320
	NcoI EcoRV HindIII	
	BsaI	
321	CGTTTACCGCTACTGCGTCAACGGATCTCCACGCGCCCTGTAGCGGCGCATTAAAGCGCGGGGTGTGGTGGTTACGCGCA	400
	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 for subcloning.

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
ColE1 origin	2358	2946



Cloning primers for the precise cloning using <i>BsaI</i> or <i>Eco31I</i>	Sequencing primers:
Forward: 5'- NNNNNNGGTCTCNGC GCC (N ₂₀) NNN NNN...	Forward: 5'- GAGTTATTTTACCCTCCCT -3'
Reverse: 5'- NNNNNNGGTCTCNTA TCA (N ₂₀) NNN NNN...	Reverse: 5'- CGCAGTAGCGGTAAACG -3'