

Data Sheet

pASK-IBA2C

Cat. No.: 2-1321-000 Lot No.: 1321-

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Last date of revision March 2012 Version 1321-9

Description	Expression plasmid. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be secreted into the periplasm.			
Affinity tag	<i>Strep</i> -Tactin [®] affinity tag (<i>Strep</i> -tag II [®]) for the purification of recombinant protein. The affinity tag is fused to the C-terminus of the recombinant protein.			
Secretion	The ompA signal sequence directs the expressed protein into the periplasmic space and will be cleaved off during the translocation process			
Bacterial Expression	Expression is induced upon addition of 200 μ g 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	Chloramphenicol Note: The CamR resistance gene codes for homotetrameric chloramphenicol acetyltransferase (MW of the monomer = 26.6 kDa) which is predominantly expressed in the cytosol of E.coli transformed with this plasmid			
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

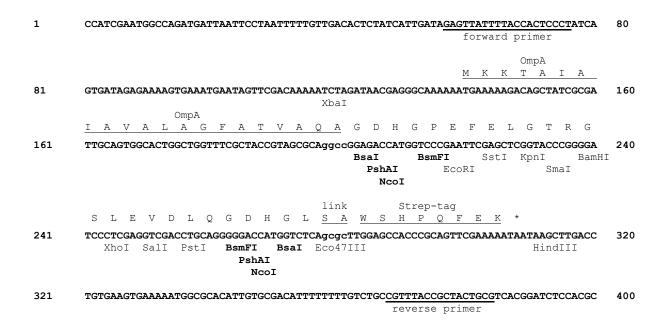
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Multiple Cloning Site of pASK-IBA2C



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. During secretion of the recombinant protein into the periplasmic space, the OmpA signal sequence will be cleaved off. The processed protein will start with the first amino acid after the last Alanine of the signal sequence.

Features of pASK-IBA2C

	from bp	to bp	Ndel		
promoter	37	72	Xbal		
forward primer binding site	57	76	PshAl Ncol		
OmpA signal sequence	139	201			
multiple cloning site	202	201 282 3061 bp			
Strep-tag	283	312 OmpA Kpnl Smal			
reverse primer binding site	368	384 BamHI MCS			
f1 origin	397	835 CamR Strep-tag Soll 1616 Pstl			
CamR resistance gene	957				
Tet-repressor	1629	2252	sp3 f1 origin Bsal		
Col E1origin	2405	2993	Ncol Eco47III		
Kpn21/ Esp31 HindIII					
Cloning primers for the preci	se cloning	using Bso	I or <i>Eco31</i> I Sequencing primers:		
Forward: 5'- NNNNNGG	TCTCNG G		NNN Forward: 5'- GAGTTATTTTACCACTCCCT -3'		
Reverse: 5'- NNNNNGG	TCTCNGC	(N ₂₀ GCT NNN	NNN Reverse: 5'- CGCAGTAGCGGTAAACG -3'		