

Data Sheet

pASK-IBA16

Cat. No.: 2-1315-000

Lot No.: 1315 -

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Last date of revision March 2012 Version 1315-4

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	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 TEV protease (tabacco etch virus). TEV protease is a site-specific protease with a seven amino acid recognition site (in pASK-IBA16: ENLYFQG) and cleavage occurs between glutamine (Q) and glycine (G).	
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	Ampicillin	
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	

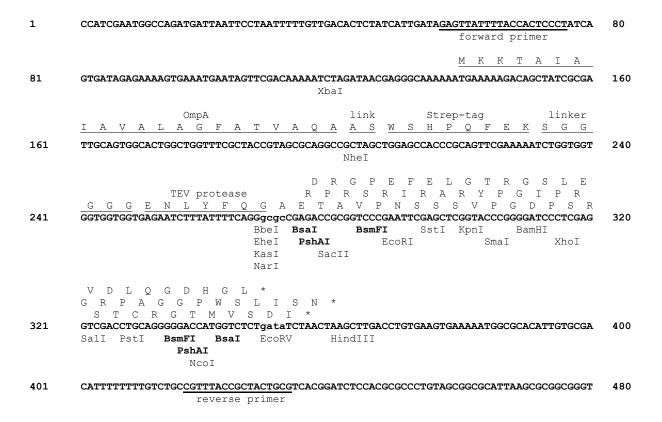
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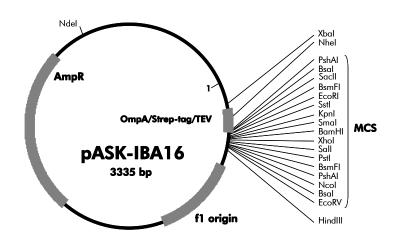
Multiple Cloning Site of pASK-IBA16



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 Ala-Ser-linker.

Features of pASK-IBA16

	from bp	to bp
promoter	37	72
forward primer binding site	57	76
OmpA signal sequence	139	201
Strep-tag	202	231
TEV cleavage site	232	272
multiple cloning site	273	349
reverse primer binding site	417	433
f1 origin	446	884
AmpR resistance gene	1033	1893
tet-repressor	1903	2526
Col E1origin	2679	3267



Cloning prime	ers for the precise cloning using Bsal or Eco31I	Sequencing primers:
Forward:	5'- NNNNNNGGTCTCNGC GCC NNN NNN	Forward:5'- GAGTTATTTTACCACTCCCT -3'
Reverse:	5'- NNNNNNGGTCTCNTA TCA NNN NNN	Reverse:5'- CGCAGTAGCGGTAAACG -3'