

Data Sheet

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pASG-IBA105

Cat. No.: 5-4105-001 Version: 2.3

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Lot No.: 4105-

Description	 StarGate Acceptor Vector for bacterial expression. The expression cassette is under transcriptional control of the tetracycline promoter/operator. Compatible with any <i>E. coli</i> strain. The <i>tet</i>-promoter works independently from the genetic background of <i>E. coli</i>. The expressed recombinant protein will be localized in the cytoplasm. 		
Cloning Strategy	Cloning into StarGate Acceptor Vectors has to be done with the restriction enzyme Esp3I. There is no Multiple Cloning Site (MCS) available that can be used for the integration of the gene of interest instead (see manual).		
Bacterial Expression	Expression is induced upon addition of 200 μ g anhydrotetracycline (# 2-0401-001; -002) per 1 liter <i>E. coli</i> shaking culture (A ₅₅₀ = 0.5).		
Affinity tag	Strep-Tactin® affinity tag (Twin-Strep-tag®) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-tag is fused to the N-terminus of the recombinant protein.		
Resistance	Ampicillin		
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.		

Note: The sequences have been compiled from information in the sequence database, published literature, and other sources, together with partial sequences obtained by IBA, however, the vectors have not been completely sequenced.



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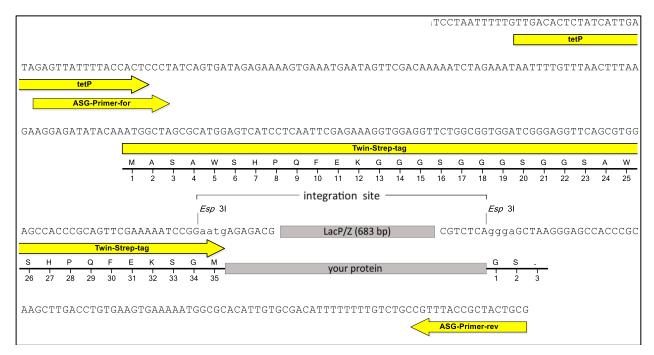
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Expression cassette of pASG-IBA105



Esp3l expr. cass. tetP pASG-IBA ref repressor

LacP/Z cassette = contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of *LacZ* mutations such as

 $LacZ\Delta M15$ as in *E. coli* DH5 α or TOP10.

your protein = after StarGate cloning using Esp3l your gene of

interest will be located here

Features	from bp	to bp	Sequencing primer
f1 origin	13	451	ASG-Primer-for (Cat. No. 5-0000-101)
AmpR resistance gene	600	1460	
Tet-repressor	1470	2093	5'- GAGTTATTTTACCACTCCCT -3'
ColElori	2246	2834	
Tet promoter	2939	2975	ASG-Primer-rev (Cat. No. 5-0000-102)
forward primer binding site	2959	2978	
Twin-Strep-tag	3062	3166	5'- CGCAGTAGCGGTAAACG -3'
LacZ alpha fragment	3392	3793	
reverse primer binding site	3936	3952	
total vector length		3952	