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Data Sheet

pASG-IBA102

Cat. No.: 5-4102-001

Version: 3.0

Revision Date: 26.07.2021

Description	StarGate Acceptor Vector for bacterial expression. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be secreted into the periplasm.		
Affinity tag	Twin-Strep-tag® is fused to the C-terminus of the recombinant protein.		
Secretion	The <i>ompA</i> signal sequence directs the expressed protein into the periplasmic space and will be cleaved off during the translocation process		
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).		
Expression strain	Any E. coli strain. The tet-promoter works independently from the genetic background of E. coli.		
Bacterial Expression	Expression is induced upon addition of 200 μ g anhydrotetracycline per 1 liter <i>E. coli</i> shaking culture (A ₅₅₀ = 0.5).		
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.		

For research use only

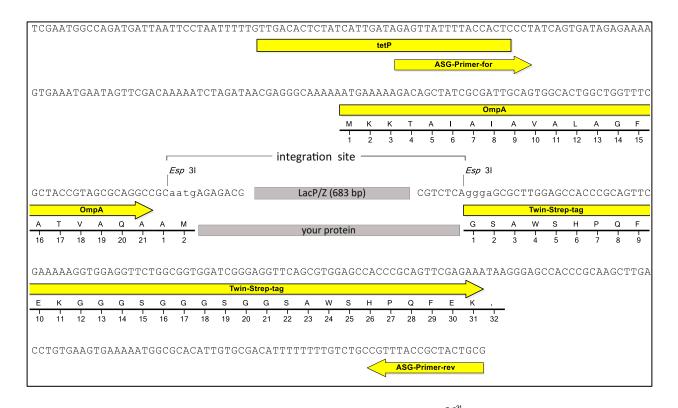
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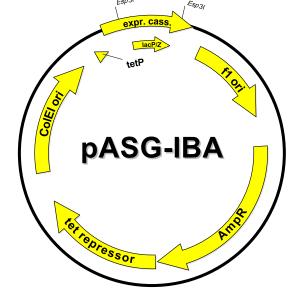
Expression cassette of pASG-IBA102



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

complementation of Lacz mutations such as $LacZ\Delta M15$ as in E. coli DH5 α or TOP10. after StarGate cloning using Esp3I your gene

your protein = after StarGate cloning using Es of interest will be located here



Features	from bp	to bp	Sequencing primer
f1 origin	13	451	ASG-Primer-for
AmpR resistance gene	600	1460	
Tet-repressor	1470	2093	5'- GAGTTATTTTACCACTCCCT -3'
ColEl ori	2246	2834	
Tet promoter	2939	2975	ASG-Primer-rev
forward primer binding site	2959	2978	A3G-FIIIIeI-IeV
OmpA signal sequence	3041	3103	5'- CGCAGTAGCGGTAAACG -3'
LacZ alpha fragment	3335	3736	
Twin-Strep-tag®	3800	3892	
reverse primer binding site	3966	3982	
total vector length		3982	