

Data Sheet

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pASG-IBA123

Cat. No.: 5-4123-001 Version: 2.3

Revision Date: 03.03.2020

Lot No.: 4123-

Description	 StarGate Acceptor Vector for bacterial expression. The expression cassette is under transcriptional control of the tetracycline promoter/operator. Compatible with any E. coli strain. The tet-promoter works independently from the genetic background of E. coli. 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	The recombinant protein will contain two affinity tags: 1. GST-tag (Glutathione-S-Transferase) for the purification of recombinant protein. The affinity tag is fused to the N-terminus of the recombinant protein. After purification the GST may be removed by digesting with PreScission™ Protease. 2. Strep-Tactin® affinity tag (Twin-Strep-tag®) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-tag is fused to the C-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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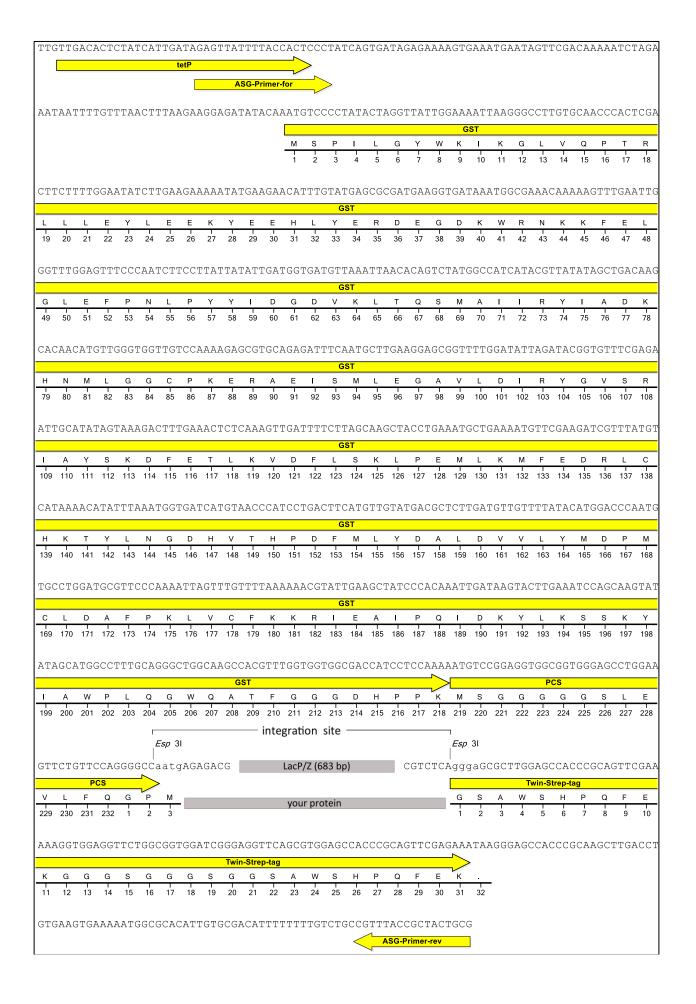
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Expression cassette of pASG-IBA123



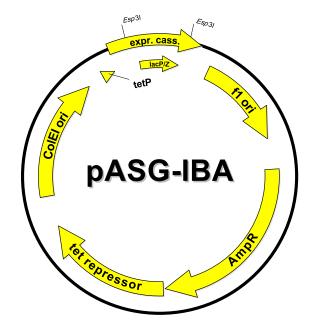
Expression cassette of pASG-IBA123, continued

LacP/Z cassette =

contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of *LacZ* mutations such as *LacZΔM15* as in *E. coli* DH5α 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	
GST-tag	3062	3715	5'- CGCAGTAGCGGTAAACG -3'
PreScission™ protease site (PCS)	3716	3763	\prod
LacZ alpha fragment	3992	4393	\prod
Twin-Strep-tag	4457	4549	
reverse primer binding site	4623	4639	\prod
total vector length		4639	\prod