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## Data Sheet

### pASG-IBA43

Cat. No.: 5-4043-001

Version: 3.0  
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<b>Description</b>	<b>StarGate Acceptor Vector for bacterial expression. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be localized in the cytoplasm.</b>
<b>Affinity tag</b>	Strep-tag® II is fused to the C-terminus and 6xHis-tag is fused to the N-terminus of the recombinant protein.
<b>Cloning Strategy</b>	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).
<b>Expression strain</b>	Any <i>E. coli</i> strain. The <i>tet</i> -promoter works independently from the genetic background of <i>E. coli</i> .
<b>Bacterial Expression</b>	Expression is induced upon addition of 200 µg anhydrotetracycline per 1 liter <i>E. coli</i> shaking culture ( $A_{550} = 0.5$ ).
<b>Resistance</b>	Ampicillin
<b>Form</b>	5 µg, dissolved in 20 µl TE buffer, pH 8.0: 10 mM Tris/HCl, 1 mM EDTA
<b>Concentration</b>	250 ng/µl
<b>Stability</b>	12 months after shipping
<b>Storage</b>	recommended: 2-8 °C for frequent usage, -20 °C for long-term storage
<b>Shipping</b>	room temperature
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

#### For research use only

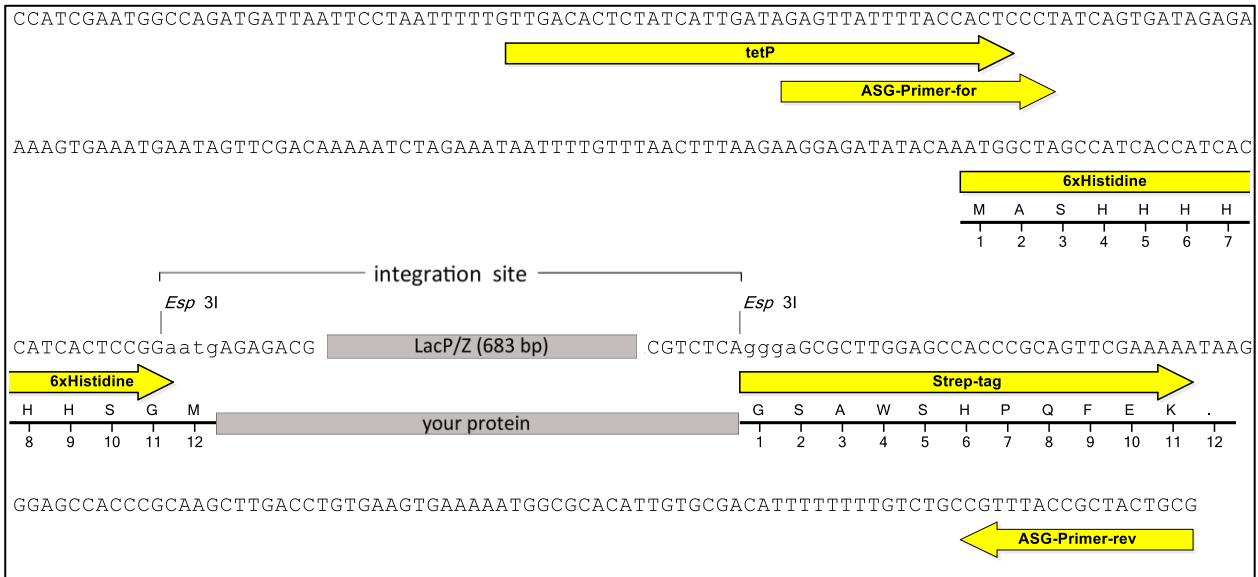
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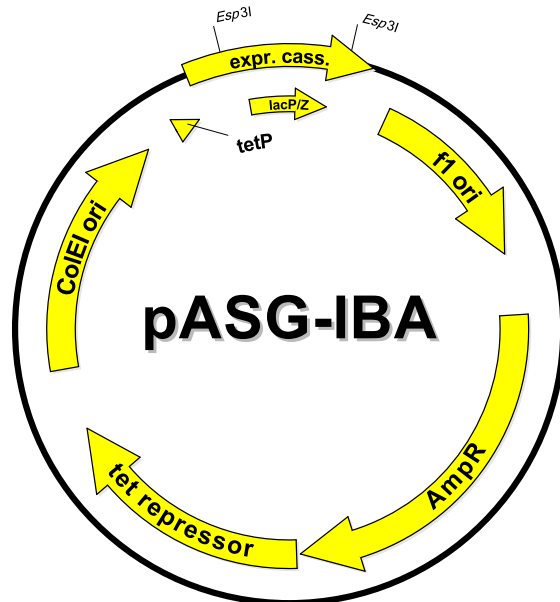
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## Expression cassette of pASG-IBA3



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 *Esp3I* your gene of interest will be located here



Features	from bp	to bp	Sequencing primer
f1 origin	13	451	<b>ASG-Primer-for</b>
AmpR resistance gene	600	1460	5' - GAGTTATTTTACCACTCCCT -3'
Tet-repressor	1470	2093	
ColEI ori	2246	2834	
Tet promoter	2939	2975	<b>ASG-Primer-rev</b>
forward primer binding site	2959	2978	5' - CGCAGTAGCGGTAAACG -3'
6xHistidine-tag	3062	3094	
LacZ alpha fragment	3323	3724	
Strep-tag®II	3788	3820	
reverse primer binding site	3894	3910	
total vector length		3910	