

## Data Sheet

### pASG-IBA4

Cat. No.: 5-4004-001

Version: 2.3

Lot No.: 4004-

Revision Date: 03.03.2020

<b>Description</b>	StarGate Acceptor Vector for bacterial expression. <ul style="list-style-type: none"> <li>The expression cassette is under transcriptional control of the tetracycline promoter/operator.</li> <li>Compatible with any <i>E. coli</i> strain. The <i>tet</i>-promoter works independently from the genetic background of <i>E. coli</i>.</li> <li>The expressed recombinant protein will be secreted into the periplasm.</li> </ul>
<b>Bacterial Expression</b>	Expression is induced upon addition of 200 µg anhydrotetracycline (# 2-0401-001; -002) per 1 liter <i>E. coli</i> shaking culture ( $A_{550} = 0.5$ ).
<b>Affinity tag</b>	Strep-Tactin® affinity tag ( <i>Strep-tag</i> ®II) for the purification of recombinant protein via Strep-Tactin® resins. The <i>Strep-tag</i> ®II is fused to the N-terminus of the recombinant protein.
<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.

**Note:** Vector sequences can be downloaded from <http://www.iba-lifesciences.com>. 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.



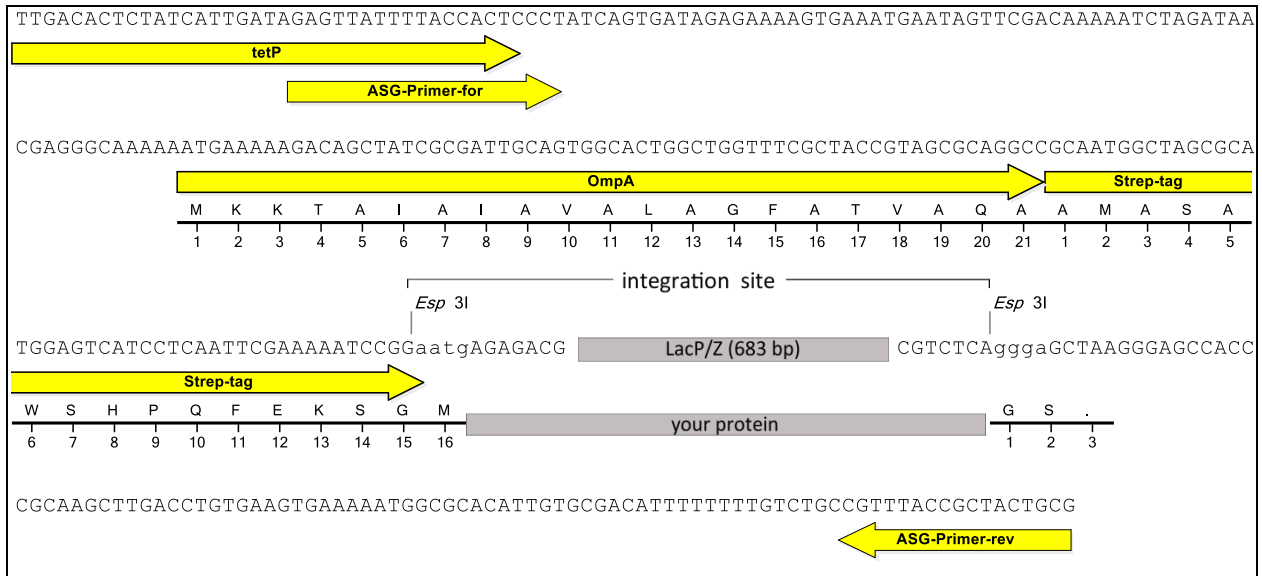
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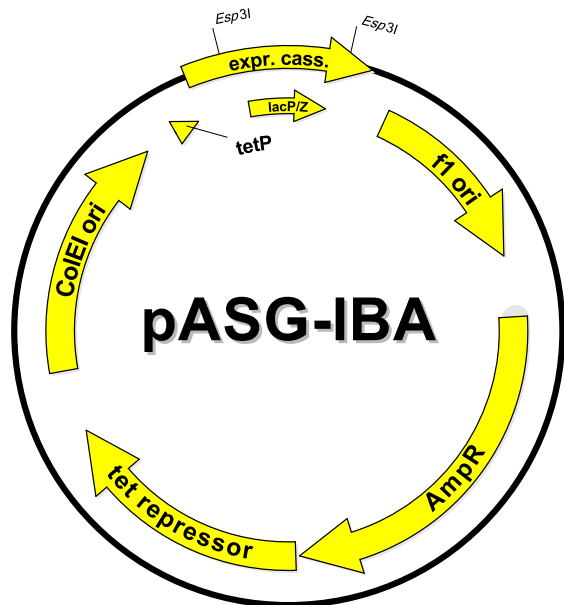
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## Expression cassette of pASG-IBA4



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	ASG-Primer-for (Cat. No. 5-0000-101)
AmpR resistance gene	600	1460	5' - GAGTTATTTTACCACTCCCT -3'
Tet-repressor	1470	2093	
ColEI ori	2246	2834	
Tet promoter	2939	2975	
forward primer binding site	2959	2978	ASG-Primer-rev (Cat. No. 5-0000-102)
OmpA signal sequence	3041	3103	5' - CGCAGTAGCGGTTAAACG -3'
Strep-tagII	3104	3148	
LacZ alpha fragment	3377	3778	
reverse primer binding site	3921	3937	
total vector length		3937	