

## Data Sheet

### pLSG-IBA43

Cat. No.: 5-4843-001

Version: 2.3

Lot No.: 4843-

Revision Date: 24.06.2020

<b>Description</b>	StarGate® Acceptor Vector designed for gene transfer into the polyhedrin gene locus of AcMNPV DNA by homologous recombination containing the following elements: <ul style="list-style-type: none"> <li>• Polyhedrin promoter for high-level expression in insect cells.</li> <li>• Co-transfection with BacPAK6 linearized AcMNPV DNA (Clontech) or with circular <i>flashBAC</i> modified AcMNPV DNA (Oxford Expression Technologies) allows the generation of recombinant baculovirus at very high efficiency through reconstitution of an essential gene (ORF 1629) and elimination of wild-type virus to great extent.</li> <li>• Ampicillin resistance and ColE1 origin of replication (pUC) for propagation in <i>E. coli</i>.</li> <li>• The expressed recombinant protein will be localized in the cytoplasm.</li> </ul>
<b>Affinity tag</b>	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> <li>1. Strep-Tactin affinity tag (Strep-tag II) for the purification of recombinant protein via Strep-Tactin resins. The Strep-tag is fused to the C-terminus of the recombinant protein.</li> <li>2. 6xHistidine-tag for the purification of recombinant protein via Ni-NTA resins. The 6xHistidine-tag is fused to the N-terminus of the recombinant protein.</li> </ol>
<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:** 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.



**Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com>.**

#### For research use only

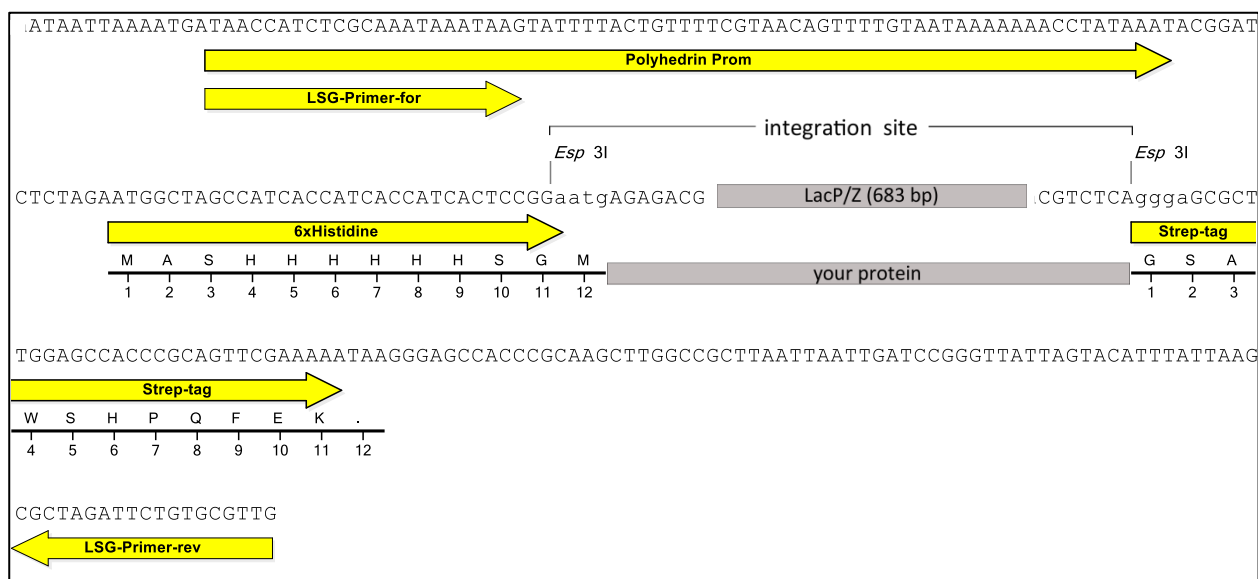
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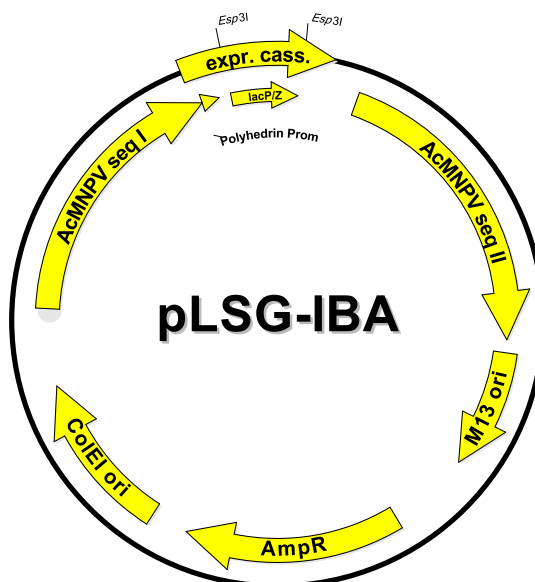
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## Expression cassette of pLSG-IBA43



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
AcMNPVseq II	1	1395	LSG-Primer-for (Cat. No. 5-0000-161) 5' - TAACCATCTCGCAAATAAATAAG -3'
M13 ori	1447	1920	
Ampicillin resistance gene	2251	3111	
ColEI ori	3259	3902	
AcMNPVseq I	4211	5357	LSG-Primer-rev (Cat. No. 5-0000-162) 5' - CAACGCACAGAATCTAGCGC -3'
Polyhedrin promoter	5286	5355	
forward primer binding site	5286	5308	
6xHistidine-tag	5369	5404	
LacZ alpha fragment	5630	6031	
<i>Strep</i> -tag	6095	6127	
reverse primer binding site	6193	6212	
total vector length		6213	