

## Data Sheet

### pLSG-IBA104

Cat. No.: 5-4904-001

Version: 2.2

Lot No.: 4904-

Revision Date: 09.03.2020

<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 secreted into the medium.</li> </ul>
<b>Affinity tag</b>	Strep-Tactin affinity tag (Twin-Strep-tag) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-tag 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:** 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

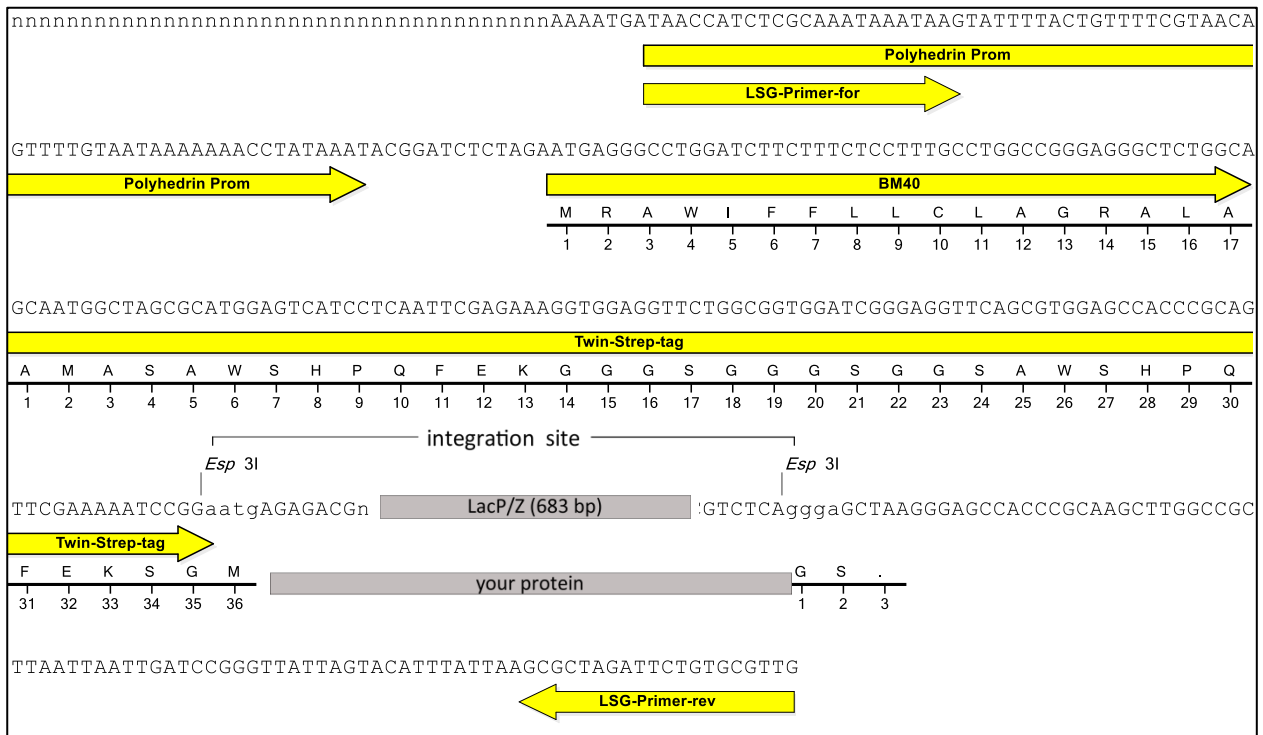
##### Important licensing information

This product is based on StarGate and One-STREP-tag technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at [info@iba-lifesciences.com](mailto:info@iba-lifesciences.com) or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

##### Trademark information

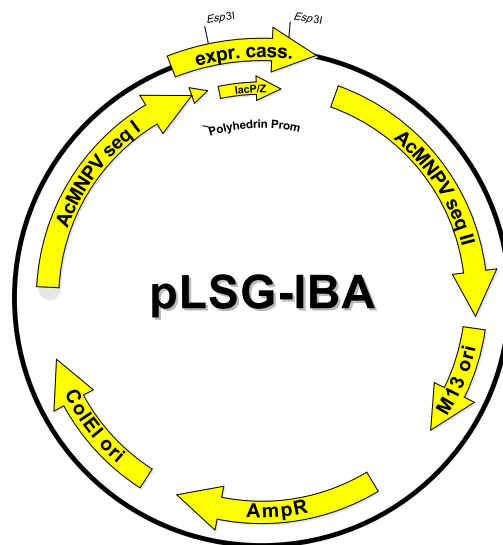
The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

## Expression cassette of pLSG-IBA104



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 *Esp31* 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)
M13 ori	1447	1920	
Ampicillin resistance gene	2251	3111	5' - TAACCATCTCGCAAATAAATAAG -3'
ColEI ori	3259	3902	LSG-Primer-rev (Cat. No. 5-0000-162)
AcMNPVseq I	4211	5357	
Polyhedrin promoter	5286	5355	5' - CAACGCACAGAATCTAGCGC -3'
forward primer binding site	5286	5308	
BM40 signalsequence	5369	5419	
Twin-Strep-tag	5420	5524	
LacZ alpha fragment	5753	6154	
reverse primer binding site	6289	6308	
total vector length		6308	