

## **Data Sheet**

IBA Headquarters IBA GmbH

Rudolf-Wissell-Str. 28 37079 Goettingen Germany Tel. +49 (0) 551-5 06 72-0 Fax +49 (0) 551-5 06 72-181

**IBA US contact information** Fax 1-888-531-6813

E-mail: info@iba-lifesciences.com http://www.iba-lifesciences.com

# pLSG-IBA64

Cat. No.: 5-4864-001 Version: 2.2

Revision Date: 09.03.2020

Lot No.: 4864-

| Description   | <ul> <li>StarGate® Acceptor Vector designed for gene transfer into the polyhedrin gene locus of AcMNPV DNA by homologous recombination containing the following elements:         <ul> <li>Polyhedrin promoter for high-level expression in insect cells.</li> <li>Co-transfection with BacPAK6 linearized AcMNPV DNA (Clontech) or with circular flashBAC 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 E. coli.</li> <li>The expressed recombinant protein will be localized in the cytoplasm.</li> </ul> </li> </ul> |  |  |
|---------------|--|--|--|
| Affinity tag  | <ol> <li>The recombinant protein will contain two affinity tags:         <ol> <li>Strep-Tactin affinity tag (Strep-tagII) for the purification of recombinant protein via Strep-Tactin resins. The Strep-tagII is fused to the N-terminus of the recombinant protein.</li> </ol> </li> <li>FLAG-tag for the purification of recombinant protein via anti-FLAG M2 agarose resins. The FLAG-tag is fused to the C-terminus of the recombinant protein.</li> </ol>  |  |  |
| 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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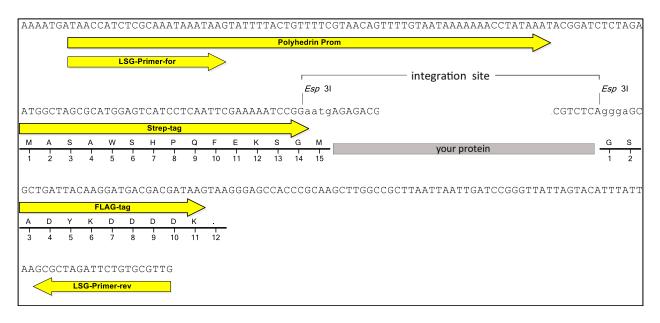
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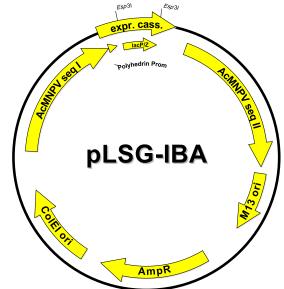
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### **Expression cassette of pLSG-IBA64**



LacP/Z cassette = contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of LacZ mutations such as  $LacZ\Delta M15$  as in E. coli DH5 $\alpha$  or TOP10.

as LacZΔM15 as in E. coli DH5α or TOP<sup>2</sup>
your protein = after StarGate cloning using Esp3l 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  |                                      |
| AcMNPVseq I                 | 4211    | 5357  | LSG-Primer-rev (Cat. No. 5-0000-162) |
| Polyhedrin promoter         | 5286    | 5355  |                                      |
| forward primer binding site | 5286    | 5308  | 5'- CAACGCACAGAATCTAGCGC -3'         |
| Strep-tag II                | 5369    | 5410  |                                      |
| LacZ alpha fragment         | 5639    | 6040  |                                      |
| FLAG-tag                    | 6110    | 6136  | $\prod$                              |
| reverse primer binding site | 6202    | 6221  | $\prod$                              |
| total vector length         |         | 6221  | $\prod$                              |