

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-IBA143

Cat. No.: 5-4943-001 Version: 2.2

Revision Date: 09.03.2020

Lot No.: 4943-

Description	 StarGate® Acceptor Vector designed for gene transfer into the polyhedrin gene locus of AcMNPV DNA by homologous recombination containing the following elements: Polyhedrin promoter for high-level expression in insect cells. 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. Ampicillin resistance and ColE1 origin of replication (pUC) for propagation in E. coli. The expressed recombinant protein will be localized in the cytoplasm. 		
Affinity tag	 The recombinant protein will contain two affinity tags: Strep-Tactin affinity tag (Twin-Strep-tag) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-tag is fused to the C-terminus of the recombinant protein. 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. 		
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.



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

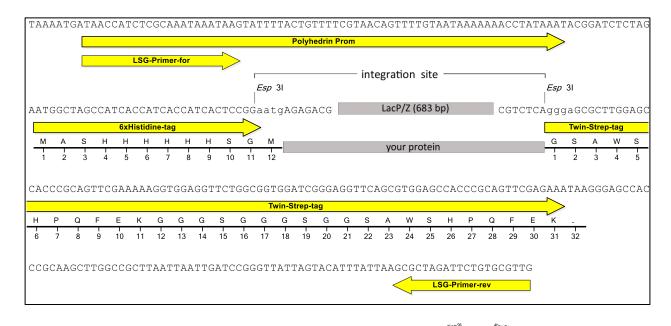
Important licensing information

This product is based on StarGate and One-STrEP tag and 6x Histidine-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 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.

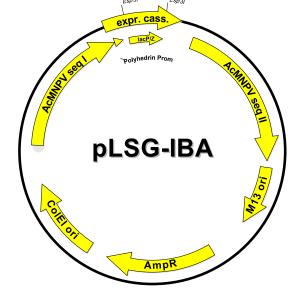
Expression cassette of pLSG-IBA143



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 α or TOP10.

your protein = as Lac2DM15 as in E. Coll DH5d or TOP1

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	LCC Primary rest (Cat. No. 5 0000 163)	
Polyhedrin promoter	5286	5355	LSG-Primer-rev (Cat. No. 5-0000-162)	
forward primer binding site	5286	5308	15'- CAACGCACAGAATCTAGCGC -3'	
6xHistidine-tag	5369	5404		
LacZ alpha fragment	5630	6031		
Twin-Strep-tag	6095	6187		
reverse primer binding site	6253	6272		
total vector length		6272		