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Data Sheet

pLSG-IBA143

Cat. No.: 5-4943-001
Lot No.: 4943-

Version: 2.2
Revision Date: 09.03.2020

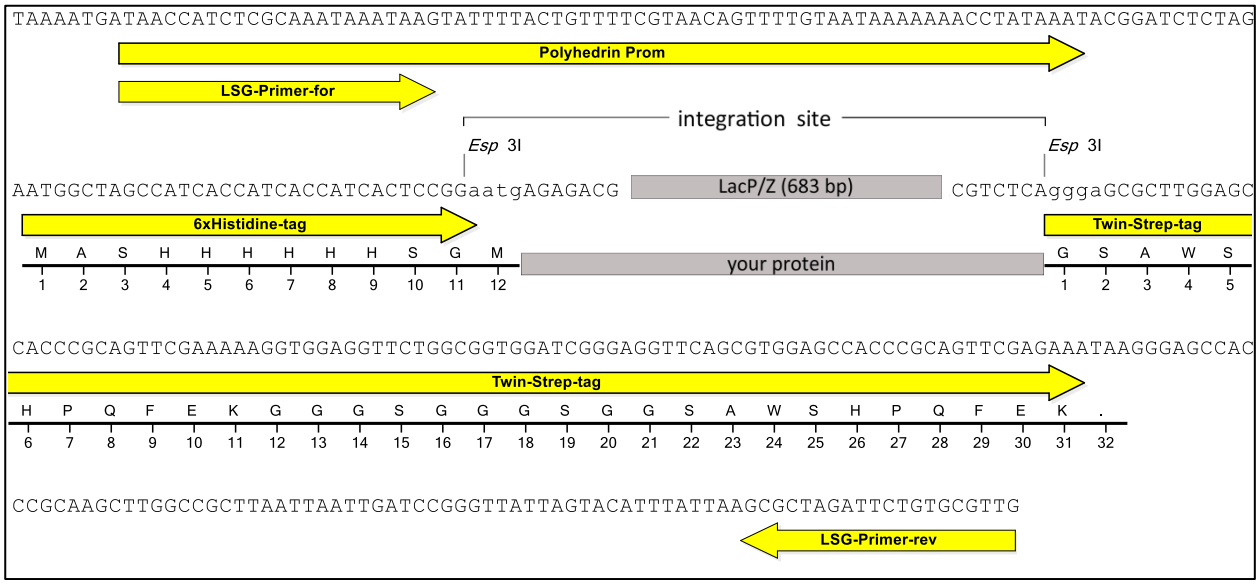
Description	StarGate® Acceptor Vector designed for gene transfer into the polyhedrin gene locus of AcMNPV DNA by homologous recombination containing the following elements: • Polyhedrin promoter for high-level expression in insect cells. • Co-transfection with BacPAK6 linearized AcMNPV DNA (Clontech) or with circular *flash*BAC 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: 1. 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. 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.
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.

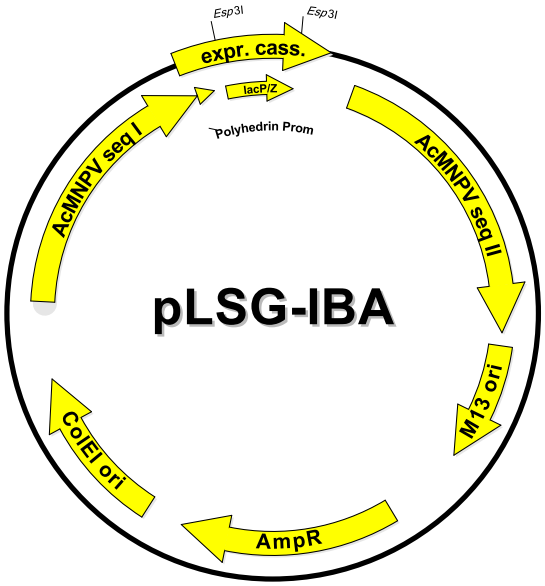
For research use only

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 *LacZΔM15* as in *E. coli* DH5α or TOP10.

your protein = after StarGate cloning using *Esp3*I 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'
6xHistidine-tag	5369	5404		
LacZ alpha fragment	5630	6031		
Twin-Strep-tag	6095	6187		
reverse primer binding site	6253	6272		
total vector length		6272		