

Data Sheet

pLSG-IBA123

Cat. No.: 5-4923-001

Version: 2.2

Lot No.: 4923-

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Description	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"> • Polyhedrin promoter for high-level expression in insect cells. • 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. • Ampicillin resistance and ColE1 origin of replication (pUC) for propagation in <i>E. coli</i>. • The expressed recombinant protein will be localized in the cytoplasm.
Affinity tag	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> 1. GST-tag (Glutathione-S-Transferase) for the purification of recombinant protein. The affinity tag is fused to the N-terminus of the recombinant protein. After purification the GST may be removed by digesting with PreScission™ Protease. 2. 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.
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.

For research use only

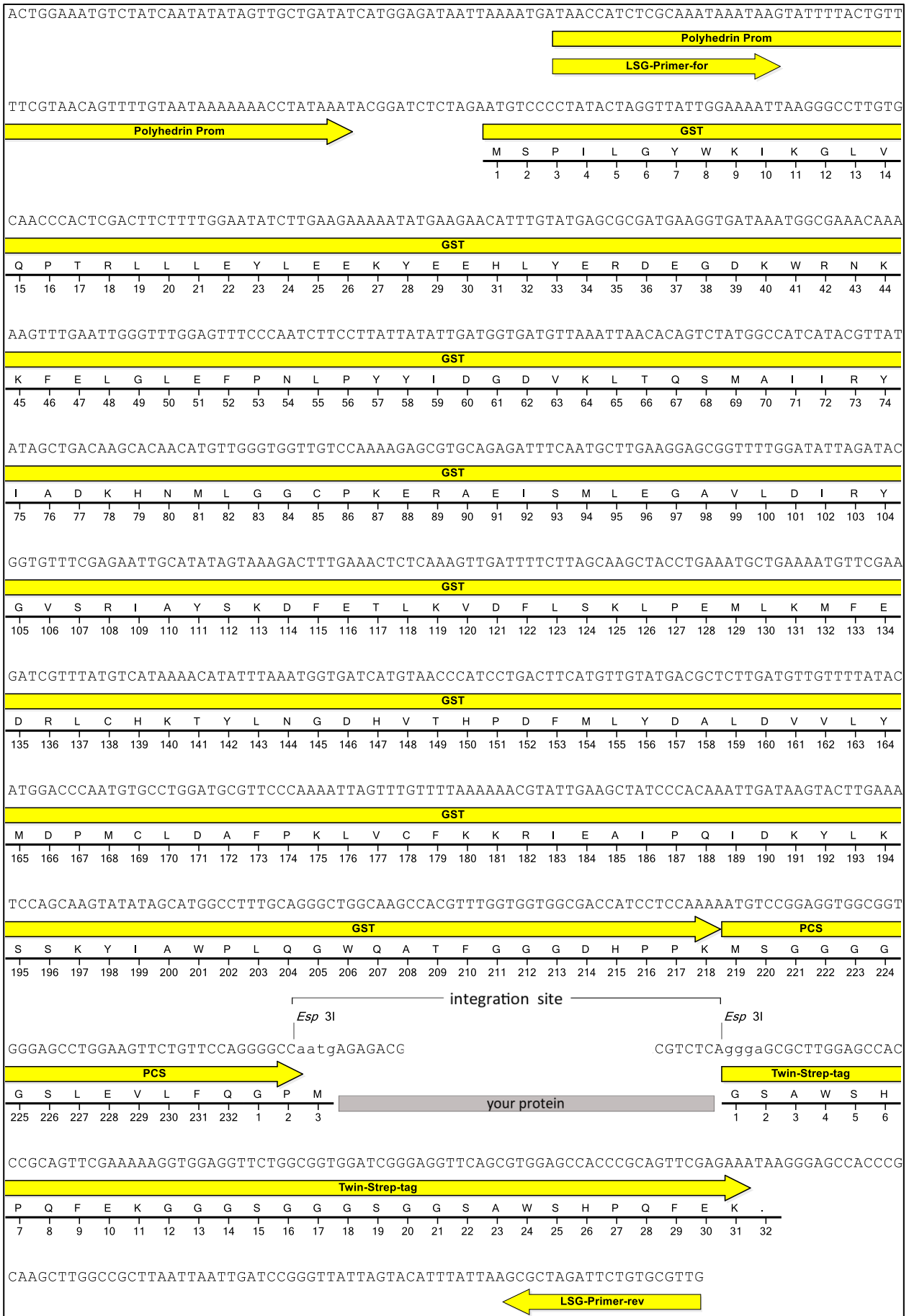
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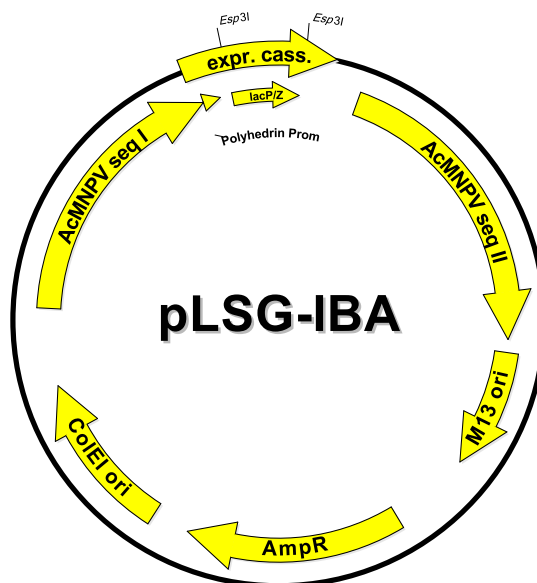
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Expression cassette of pLSG-IBA123



Expression cassette of pLSG-IBA123, continued



LacP/Z cassette = contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of *LacZ* mutations such as *LacZ*Δ*M15* 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	
GST-tag	5369	6070	
LacZ alpha fragment	6299	6700	
Twin-Strep-tag	6764	6856	
reverse primer binding site	6922	6941	
total vector length		6941	



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