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Data Sheet

pLSG-IBA162

Cat. No.: 5-4962-001

Version: 3.0 Revision Date: 27.07.2021

Description	StarGate Acceptor Vector for high-level expression of target proteins in insect cells. The gene transfer into the polyhedrin gene locus of AcMNPV DNA is achieved by homologous recombination and the vector carries a polyhedrin promoter. 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. The expressed recombinant protein will be localized in the cytoplasm.						
Affinity tag	Twin-Strep-tag [®] is fused to the C-terminus and FLAG-tag is fused to the N-terminus of the recombinant protein.						
Cloning Strategy Cloning into StarGate Acceptor Vectors has to be done with the restriction enzyme Espanon Multiple Cloning Site (MCS) available that can be used for the integration of the generic interest instead (see manual).							
Resistance	Ampicillin: for selection of transformed <i>E. coli</i> cells						
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.						

For research use only

Trademark information

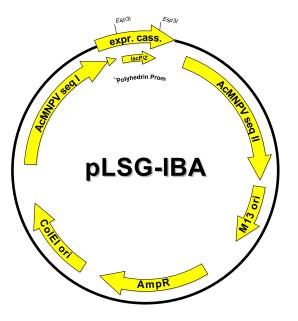
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Expression cassette of pLSG-IBA162

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 $\label{eq:LacP/Z cassette} \begin{array}{ll} \mbox{contains LacZ alpha fragment under control} \\ \mbox{of a separate promoter, which allows alpha} \\ \mbox{complementation of } LacZ mutations such as \\ \mbox{LacZ}\Delta M15 \mbox{ as in } E. \mbox{ coli } DH5\alpha \mbox{ or TOP10.} \\ \mbox{after StarGate cloning using } Esp3l \mbox{ your gene} \\ \mbox{of interest will be located here} \end{array}$

Features	from bp	to bp	Sequencing primer
AcMNPVseq II	1	1395	LSG-Primer-for
M13 ori	1447	1920	
Ampicillin resistance gene	2251	3111	5'- TAACCATCTCGCAAATAAATAAG -3'
ColEl ori	3259	3902	
AcMNPVseq I	4211	5357	
Polyhedrin promoter	5286	5355	LSG-Primer-rev
forward primer binding site	5286	5308	5'- CAACGCACAGAATCTAGCGC -3'
FLAG-tag	5369	5407	
LacZ alpha fragment	5636	6037	
Twin-Strep-tag [®]	6101	6193	
reverse primer binding site	6259	6278	
total vector length		6278	