

## Data Sheet

### pESG-IBA123

Cat. No.: 5-4523-001

Version: 2.2

Lot No.: 4523-

Revision Date: 04.03.2020

<b>Description</b>	StarGate® Acceptor Vector designed for high-level stable and non-replicative transient expression in most mammalian hosts containing the following elements: <ul style="list-style-type: none"> <li>• Human cytomegalovirus (CMV) immediate-early promoter for high-level expression in a wide range of mammalian cells</li> <li>• Neomycin resistance gene for selection of stable cell lines</li> <li>• Episomal replication in cell lines that are latently infected with SV40 or that express the SV40 large T antigen (e.g. COS-1, COS-7)</li> <li>• The expressed recombinant protein will be localized in the cytoplasm.</li> </ul>
<b>Affinity tag</b>	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>
<b>Resistance</b>	Ampicillin
<b>Form</b>	5 µg, dissolved in 20 µl TE buffer, pH 8,0: 10 mM Tris-HCl, 1 mM EDTA
<b>Concentration</b>	250 ng/µl
<b>Stability</b>	12 months after shipping
<b>Storage</b>	recommended: 2-8 °C for frequent usage, -20 °C for long-term storage
<b>Shipping</b>	room temperature
<b>Hazards</b>	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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#### For research use only

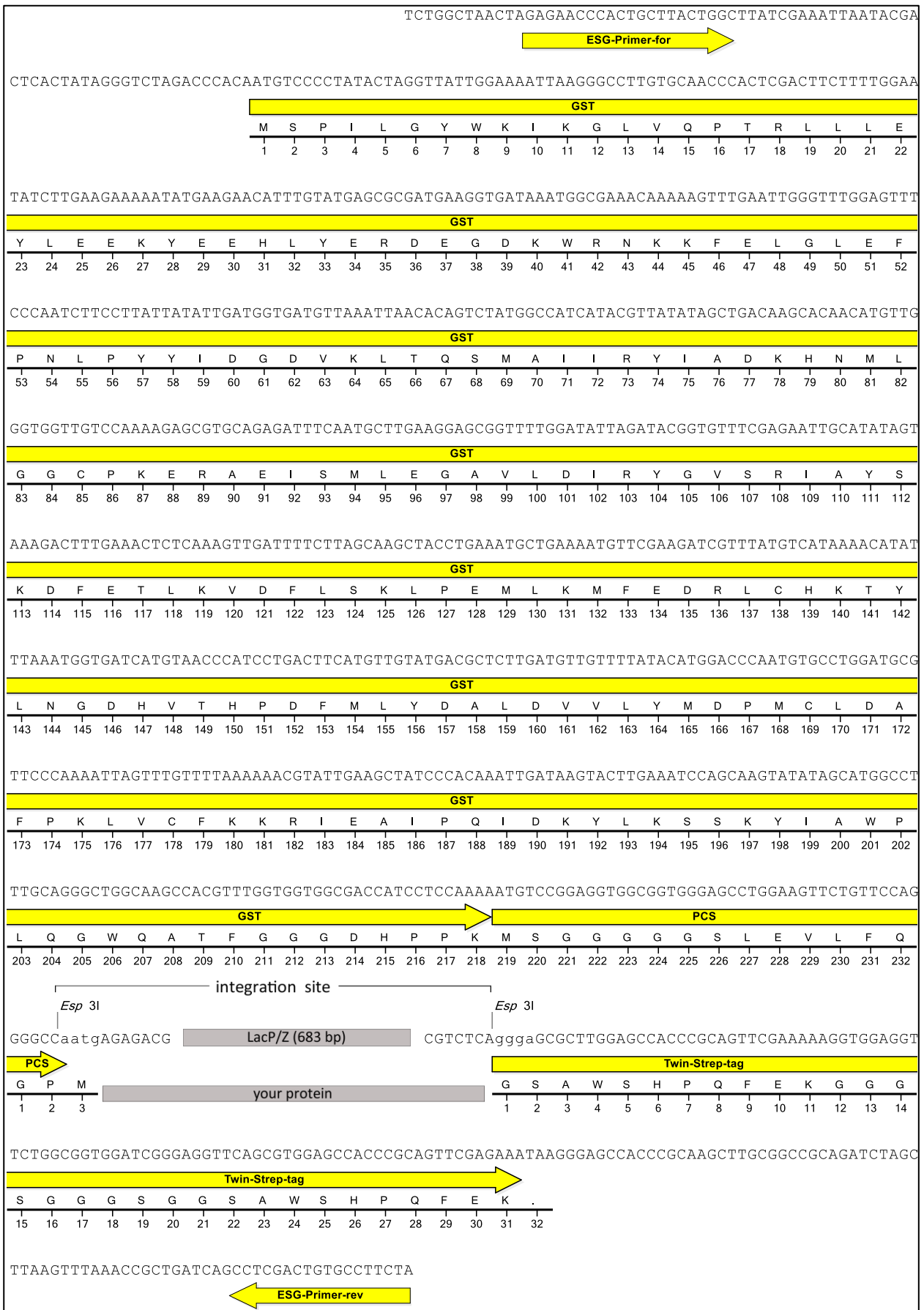
##### Important licensing information

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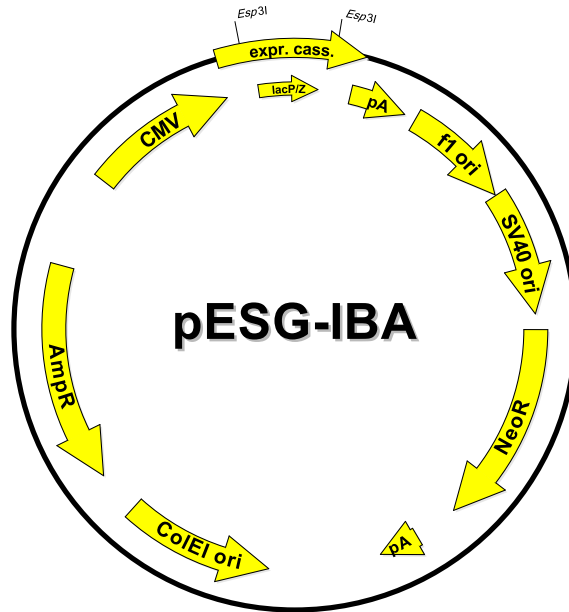
# Expression cassette of pESG-IBA123



## Expression cassette of pESG-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*ΔM15 as in *E. coli* DH5α or TOP10.

your protein = after StarGate cloning using *Esp3I* your gene of interest will be located here



Features	from bp	to bp	Sequencing primer
f1 origin	259	687	<b>ESG-Primer-for (Cat. No. 5-0000-121)</b> 5' - GAGAACCCACTGCTTACTGGC -3'
SV40 ori	692	1035	
Neomycin resistance gene	1097	1891	<b>ESG-Primer-rev (Cat. No. 5-0000-122)</b> 5' - TAGAAGGCACAGTCGAGG -3'
ColE1ori	2637	3222	
Ampicillin resistance gene	3393	4253	
CMV promoter	4621	5208	
forward primer binding site	5221	5241	
GST-tag	5284	5937	
PreScission™ protease site (PCS)	5938	5985	
LacZ alpha fragment	6214	6615	
Twin-Strep-tag	6679	6771	
reverse primer binding site	6833	6850	
polyA signal sequence	1	213	
total vector length		6850	



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