

## Data Sheet

### pESG-IBA168

Cat. No.: 5-4568-001

Version: 2.2

Lot No.: 4568-

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 fused to the C-terminus: <ol style="list-style-type: none"> <li>1. Distal: FLAG-tag for the purification of recombinant protein via anti-FLAG M2 agarose column and a FLAG octapeptide for elution. These FLAG-products are not delivered by IBA but can be purchased from Sigma.</li> <li>2. Proximal: Strep-Tactin affinity tag (Twin-Strep-tag) for purification of recombinant protein via Strep-Tactin resin.</li> </ol> This combination of tags can be used to perform Two-TAP analysis (Two-tag Tandem Affinity Purification) as published by Gloeckner et al. (2007) Proteomics 7, 4228-4234
<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

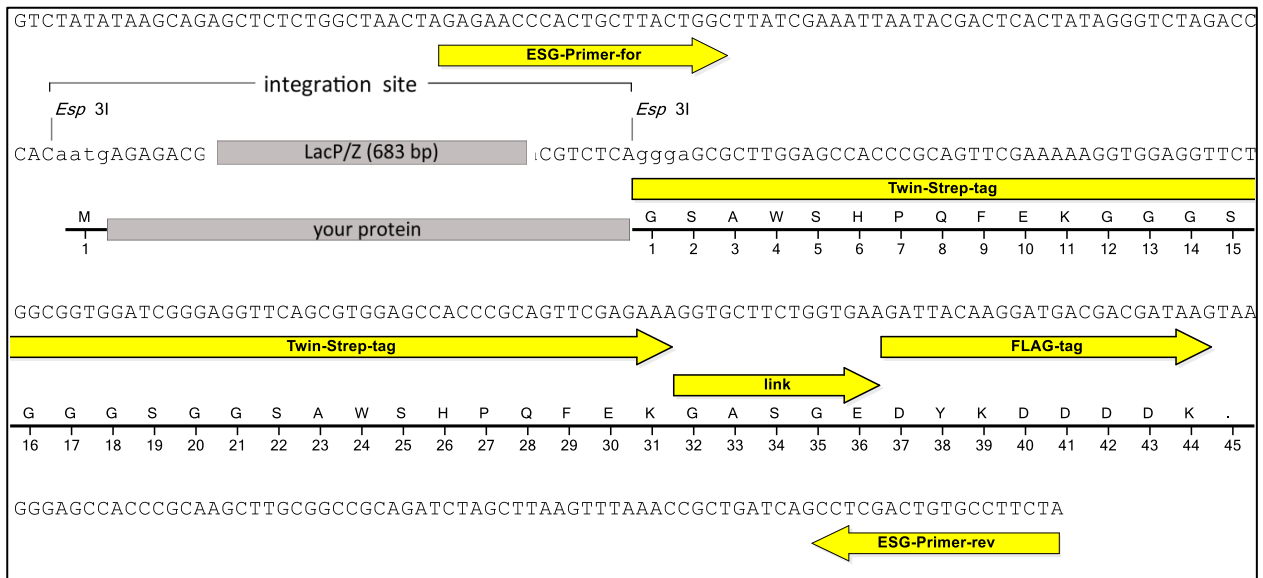
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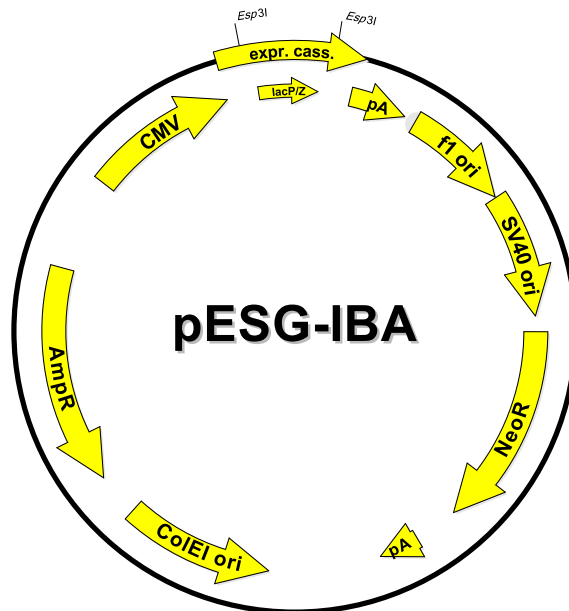
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## Expression cassette of pESG-IBA168



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 *Esp3I* your gene of interest will be located here



Features	from bp	to bp	Sequencing primer
f1 origin	259	687	ESG-Primer-for (Cat. No. 5-0000-121)
SV40 ori	692	1035	
Neomycin resistance gene	1097	1891	5' - GAGAACCCACTGCTTACTGGC -3'
ColE1ori	2637	3222	ESG-Primer-rev (Cat. No. 5-0000-122)
Ampicillin resistance gene	3393	4253	
CMV promoter	4621	5208	5' - TAGAAGGCACAGTCGAGG -3'
forward primer binding site	5221	5241	
LacZ alpha fragment	5512	5913	
Twin-Strep-tag	5977	6069	
FLAG-tag	6085	6108	
reverse primer binding site	6170	6187	
polyA signal sequence	1	213	
total vector length		6187	