

Data Sheet

pESG-IBA144

Cat. No.: 5-4544-001

Version: 2.2

Lot No.: 4544-

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Description	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"> • Human cytomegalovirus (CMV) immediate-early promoter for high-level expression in a wide range of mammalian cells • Neomycin resistance gene for selection of stable cell lines • 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) • The expressed recombinant protein will be secreted into the medium.
Affinity tag	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> 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 N-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 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.



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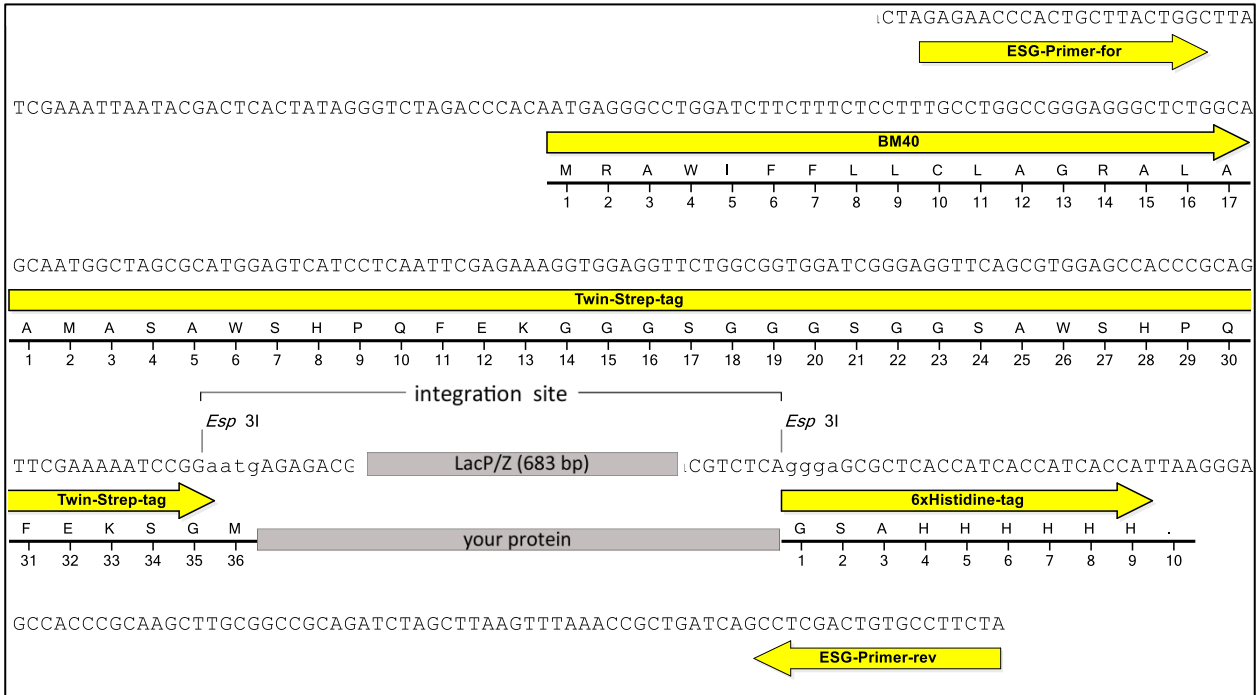
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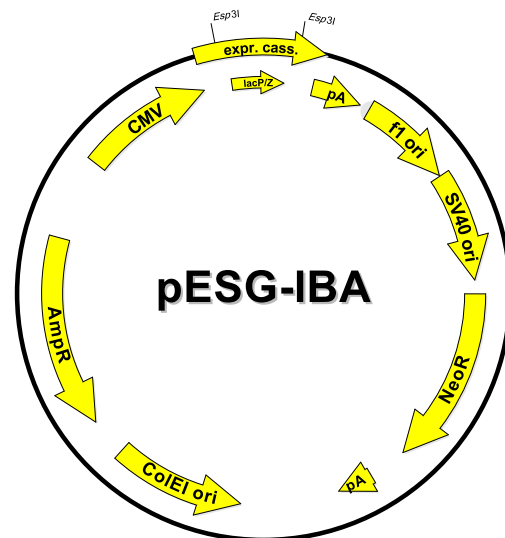
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Expression cassette of pESG-IBA144



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 *Esp31* 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	
ColEI ori	2637	3222	ESG-Primer-rev (Cat. No. 5-0000-122)
Ampicillin resistance gene	3393	4253	
CMV promoter	4621	5208	
forward primer binding site	5221	5241	
BM40 signal sequence	5284	5334	
Twin-Strep-tag	5335	5439	
LacZ alpha fragment	5668	6069	
6xHistidine-tag	6133	6159	
reverse primer binding site	6221	6238	
polyA signal sequence	1	213	
total vector length		6238	

5' - GAGAACCCACTGCTTACTGGC -3'

5' - TAGAAGGCACAGTCGAGG -3'