

Data Sheet

pESG-IBA23

Cat. No.: 5-4423-001

Version: 2.2

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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 localized in the cytoplasm.
Affinity tag	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> 1. Strep-Tactin affinity tag (Strep-tag® II) for the purification of recombinant protein via <i>Strep</i>-Tactin resins. The Strep-tagII is fused to the C-terminus of the recombinant protein. 2. 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.
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.

PreScission™ Protease is a trademark of GE HEALTHCARE

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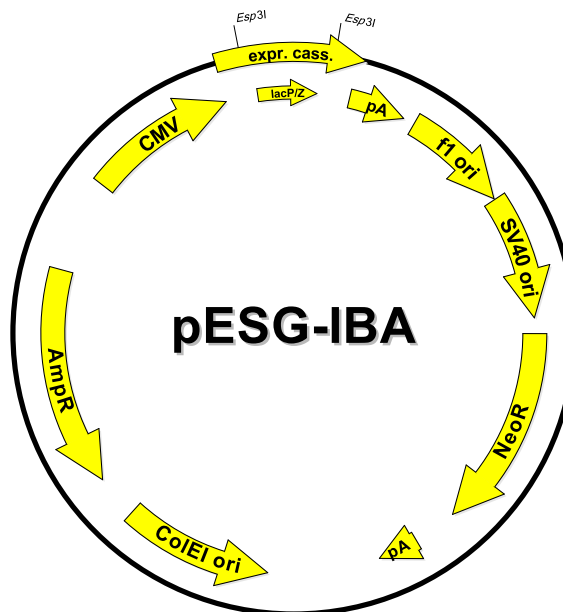
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Expression cassette of pESG-IBA23, continued

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* DH5 α 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'
ColE1 ori	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	
GST-tag	5284	5937	
PreScission™ protease site (PCS)	5938	5985	
LacZ alpha fragment	6214	6615	
<i>Strep</i> -tagII	6679	6711	
reverse primer binding site	6773	6790	
polyA signal sequence	1	213	
total vector length		6790	



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