



IBA Lifesciences GmbH
Rudolf-Wissell-Str. 28
37079 Goettingen
Germany
Tel.: +49 (0) 551-5 06 72-0
E-mail: info@iba-lifesciences.com
www.iba-lifesciences.com

Data Sheet

pESG-IBA43

Cat. No.: 5-4443-001

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Description	StarGate Acceptor Vector for stable and non-replicative transient expression in mammalian cells. It carries the human cytomegalovirus (CMV) immediate-early promoter for high-level expression and the SV40 ori for episomal replication in cell lines that are latently infected with SV40 or that express the SV40 large T antigen (e.g., HEK293T, COS-1, COS-7). The expressed recombinant protein will be localized in the cytoplasm.
Affinity tag	Strep-tag® II is fused to the N-terminus and 6xHistidine-tag is fused to the C-terminus of the recombinant protein.
Cloning Strategy	Cloning into StarGate Acceptor Vectors has to be done with the restriction enzyme Esp3I. There is no Multiple Cloning Site (MCS) available that can be used for the integration of the gene of interest instead (see manual).
Resistance	Ampicillin: for selection of transformed <i>E. coli</i> cells Neomycin: for selection of stable cell lines
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.

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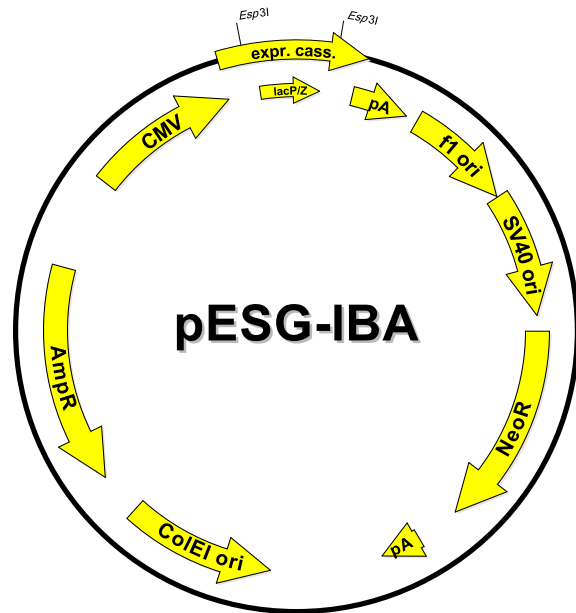
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Expression cassette of pESG-IBA45



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
SV40 ori	692	1035	
Neomycin resistance gene	1097	1891	5' - GAGAACCCACTGCTTACTGGC -3'
ColEI ori	2637	3222	
Ampicillin resistance gene	3393	4253	ESG-Primer-rev
CMV promoter	4621	5208	
forward primer binding site	5221	5241	5' - TAGAAGGCACAGTCGAGG -3'
Strep-tag®II	5284	5325	
LacZ alpha fragment	5554	5955	
6xHistidine-tag	6019	6045	
reverse primer binding site	6107	6124	
polyA signal sequence	1	213	
total vector length		6124	