

Data Sheet

pCSG-IBA168

Cat. No.: 5-5168-001

Version: 2.2

Lot No.: 5168-

Revision Date: 09.03.2020

Description	<p>StarGate® Acceptor Vector designed for high-level episomal expression in mammalian hosts under G418 selection containing the following elements:</p> <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 G418 selection of transfected cells • Episomal replication through Epstein Barr Virus replication origin (oriP) and nuclear antigen encoded by EBNA-1 in human, primate and canine cells and through SV40 replication origin in cells latently infected with SV40 or that express the SV40 large T antigen (e.g. COS-1, COS-7). • Ampicillin resistance and ColE1 replication origin (pUC) for propagation in <i>E. coli</i>. • The expressed recombinant protein will be localized in the cytoplasm.
Affinity tag	<p>The recombinant protein will contain two affinity tags fused to the C-terminus:</p> <ol style="list-style-type: none"> 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. 2. Proximal: Strep-Tactin affinity tag (Twin-Strep-tag) for purification of recombinant protein via Strep-Tactin resin. <p>This combination of tags can be used to perform Two-TAP analysis (Two-tag Tandem Affinity Purification) as published by Gloeckner et al. (2007) <i>Proteomics</i> 7, 4228-4234</p>
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.

For research use only

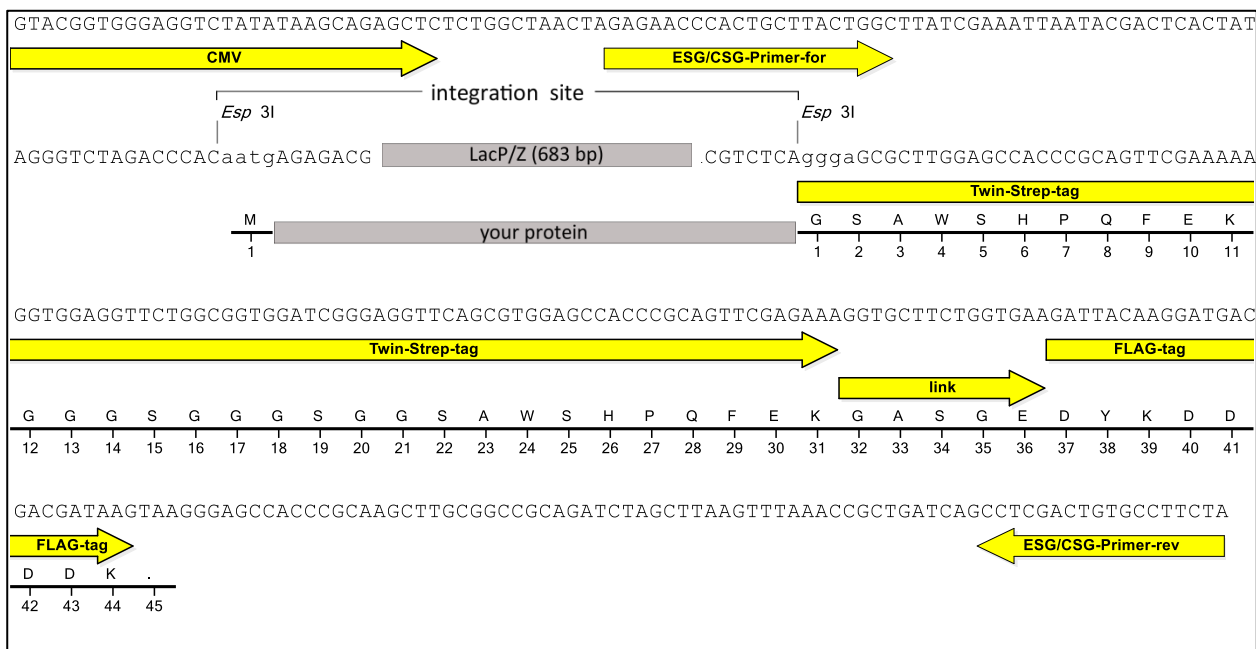
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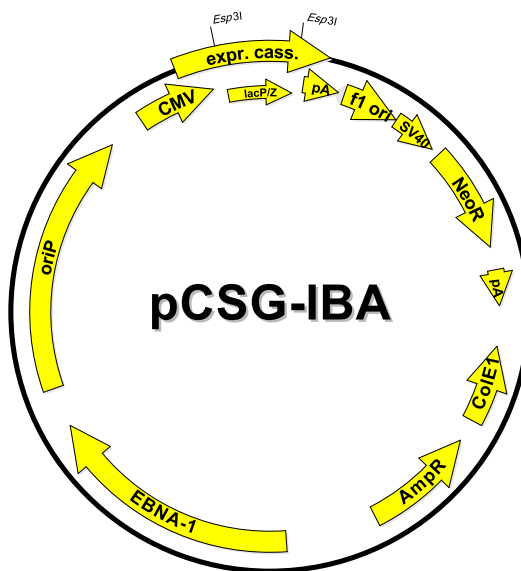
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Expression cassette of pCSG-IBA168



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
polyA signal sequence	1	213	ESG/CSG-Primer-for (Cat. No. 5-0000-121) 5' - GAGAACCCACTGCTTACTGGC -3'
f1 origin	259	687	
SV40 ori	692	1035	ESG/CSG-Primer-rev (Cat. No. 5-0000-122) 5' - TAGAAGGCACAGTCGAGG -3'
Neomycin resistance gene	1097	1891	
ColEI ori	2637	3222	
Ampicillin resistance gene	4253	3393	
EBNA-1	4944	6869	
oriP/episomal replication origin	7170	9145	
CMV promoter	9426	10013	
forward primer binding site	10026	10046	
LacZ alpha fragment	10317	10718	
Twin-Strep-tag	10782	10874	
FLAG-tag	10890	10913	
reverse primer binding site	10975	10992	
total vector length		10992	



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