

## Data Sheet

### pCSG-IBA62

Cat. No.: 5-5062-001

Version: 2.2

Lot No.: 5062-

Revision Date: 09.03.2020

<b>Description</b>	StarGate® Acceptor Vector designed for high-level episomal expression in mammalian hosts under G418 selection 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 G418 selection of transfected cells</li> <li>• 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).</li> <li>• Ampicillin resistance and ColE1 replication origin (pUC) for propagation in <i>E. coli</i>.</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: <ol style="list-style-type: none"> <li>1. Strep-Tactin affinity tag (Strep-tag® II) for the purification of recombinant protein via Strep-Tactin resins. The Strep-tag® II is fused to the C-terminus of the recombinant protein.</li> <li>2. FLAG-tag for the purification of recombinant protein via anti-FLAG M2 agarose resins. The FLAG-tag is fused to the N-terminus of the recombinant protein.</li> </ol>
<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.

#### For research use only

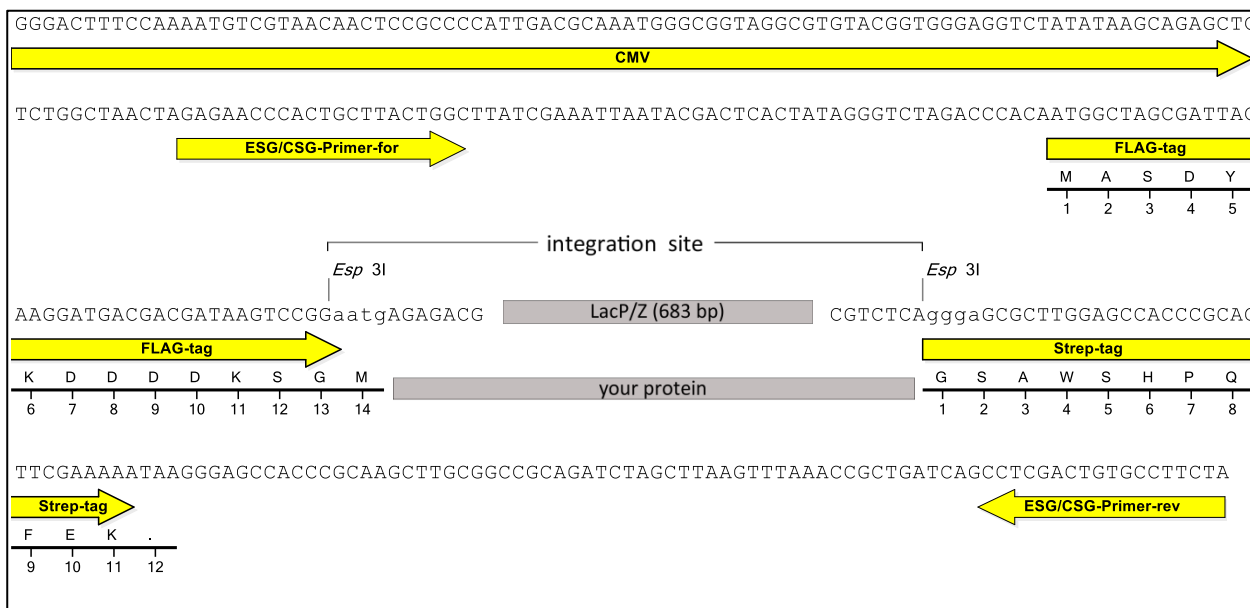
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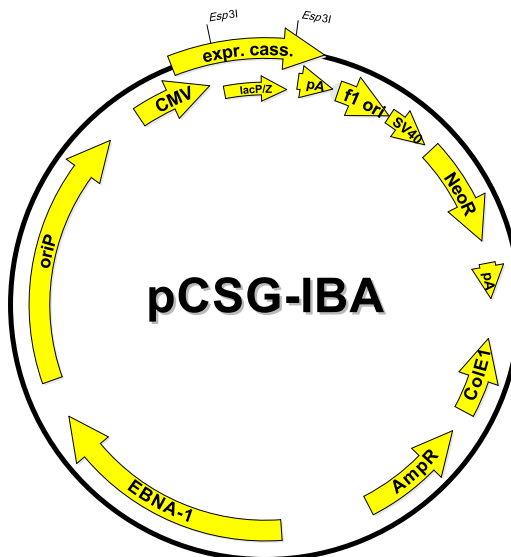
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## Expression cassette of pCSG-IBA62



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
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	
ColE1ori	2637	3222	
Ampicillin resistance gene	4253	3393	
EBNA-1	4944	6869	
oriPepisomal replication origin	7170	9145	
CMV promoter	9426	10013	
forward primer binding site	10026	10046	
FLAG-tag	10089	10127	
LacZ alpha fragment	10356	10757	
Strep-tag	10821	10853	
reverse primer binding site	10915	10932	
total vector length		10932	



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