



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

## Data Sheet

### pCSG-IBA105

Cat. No.: 5-5105-001

Version: 3.0  
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<b>Description</b>	<b>StarGate Acceptor Vector for transient expression as well as for generation of stable mammalian cell lines. Extrachromosomal replication in mammalian cells could occur either by origin of replication from Epstein-Barr Virus (oriP) or by SV40 ori. For the former the vector provides the EBNA-1 gene and for the latter the cell line has to be latently infected with SV40 or express the SV40 large T antigen (e.g., HEK293T, COS-1, COS-7). Stable cell lines can be selected by the neomycin resistance gene (NeoR). In addition, the human cytomegalovirus (CMV) immediate-early promoter enables a high-level expression in a wide range of mammalian cells. The expressed recombinant protein will be localized in the cytoplasm.</b>
<b>Affinity tag</b>	Twin-Strep-tag <sup>®</sup> is fused to the N-terminus of the recombinant protein.
<b>Cloning Strategy</b>	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).
<b>Resistance</b>	Ampicillin: for selection of transformed E. coli cells Neomycin: for selection of stable cell lines
<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.

#### For research use only

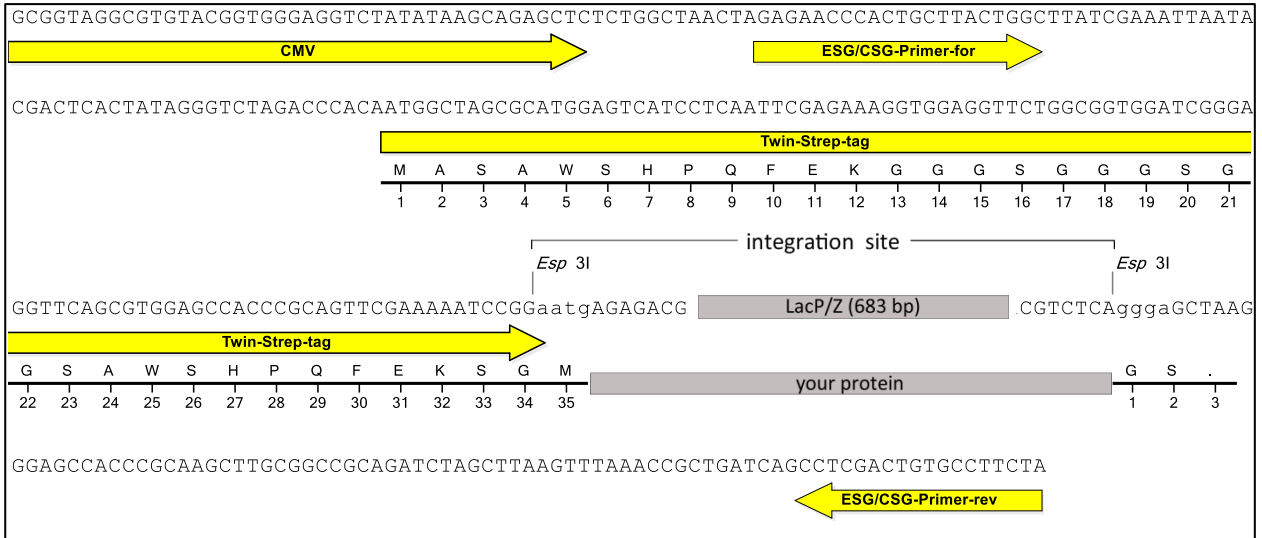
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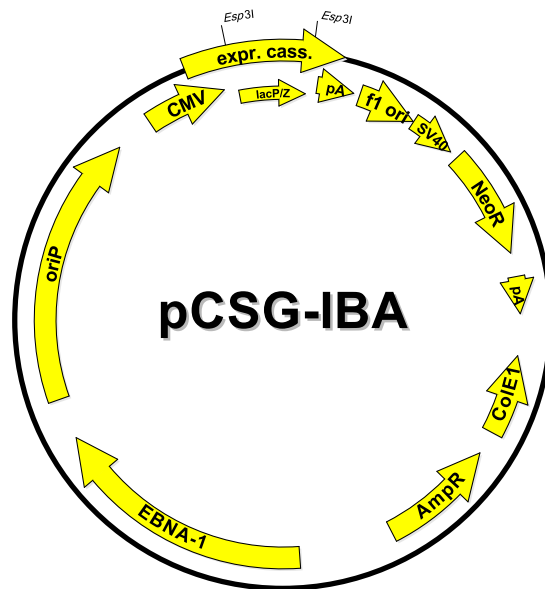
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## Expression cassette of pCSG-IBA105



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 5' - GAGAACCCACTGCTTACTGGC -3'
f1 origin	259	687	
SV40 ori	692	1035	ESG/CSG-Primer-rev 5' - TAGAAGGCACAGTCGAGG -3'
Neomycin resistance gene	1097	1891	
ColE1 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	
Twin-Strep-tag®	10089	10193	
LacZ alpha fragment	10419	10820	
reverse primer binding site	10951	10968	
total vector length		10968	