IBA Headquarters
IBA GmbH
Rudolf-Wissell-Str. 28
37079 Goettingen
Germany
Tel. +49 (0) 551-5 06 72-0
Fax +49 (0) 551-5 06 72-181

IBA US contact information
Fax 1-888-531-6813

E-mail: info@iba-lifesciences.com
http://www.iba-lifesciences.com

Data Sheet

pDSG-IBA103

Cat. No.: 5-5220-001
Lot No.: 5220-

Version: 2.2
Revision Date: 11.03.2020

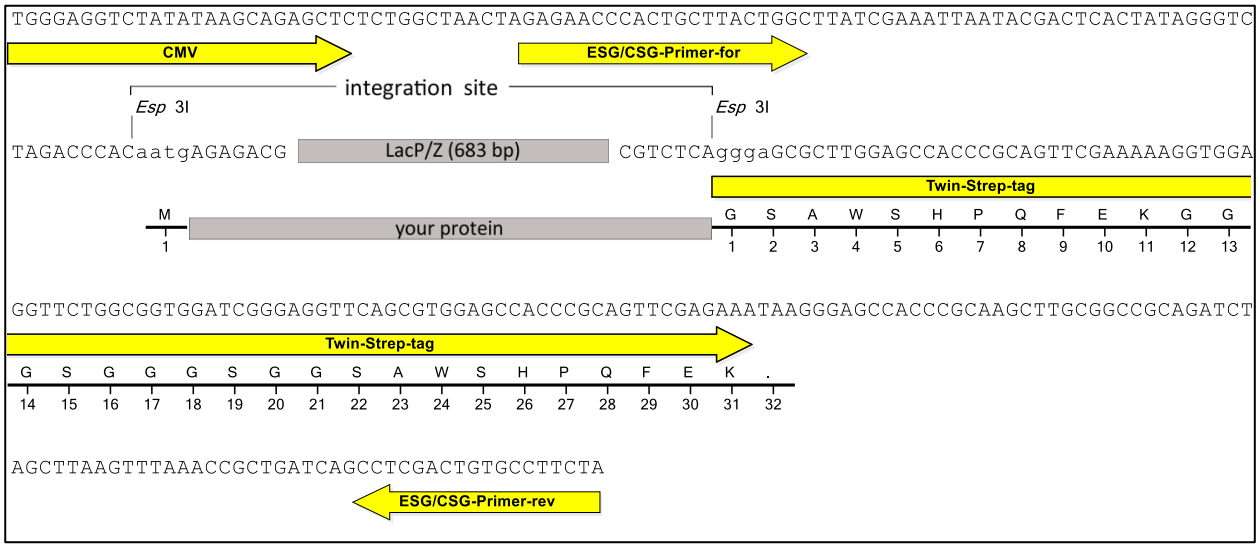
Description	StarGate® Acceptor Vector designed for high-level stable and non-replicative transient expression in most mammalian hosts containing the following elements: • Human cytomegalovirus (CMV) immediate-early promoter for high-level expression in a wide range of mammalian cells • Episomal replication through Epstein Barr Virus replication origin (oriP) requires chromosomally expressed nuclear antigen encoded by EBNA-1 • Ampicillin resistance and ColE1 replication origin (pUC) for propagation in *E. coli*. • The expressed recombinant protein will be localized in the cytoplasm. • Optimized for MEXi (Mammalian expression system IBA)
Affinity tag	Strep-Tactin affinity tag (Twin-Strep-tag) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-tag is fused to the C-terminus of the recombinant protein.
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.

Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from http://www.iba-lifesciences.com.

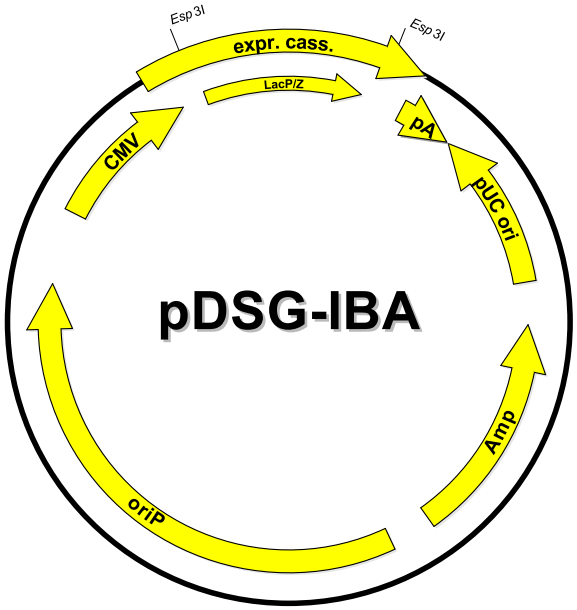
For research use only

Expression cassette of pDSG-IBA103



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 *Esp3*I 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)**
pUCori origin	222	836	
Ampicillin resistance gene	999	1856	5′- GAGAACCCACTGCTTACTGGC -3′
oriPepisomal replication origin	2021	3996	
CMV promoter	4277	4864	
forward primer binding site	4877	4897	**ESG/CSG-Primer-rev (Cat. No. 5-0000-122)**
LacZ alpha fragment	5168	5569	5′- TAGAAGGCACAGTCGAGG -3′
Twin-Strep-tag	5633	5725	
reverse primer binding site	5787	5804	
total vector length		5804	