

Data Sheet

pDSG-IBAw2

Cat. No.: 5-5201-001

Version: 2.2

Lot No.: 5201-

Revision Date: 09.03.2020

Description	StarGate® Acceptor Vector designed for high-level stable and non-replicative transient expression in most mammalian hosts containing the following elements: <ul style="list-style-type: none"> • 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 <i>E. coli</i>. • The expressed recombinant protein will be secreted in the cell culture medium (BM40 signal sequence) • Optimized for MEXi (Mammalian expression system IBA)
Affinity tag	No affinity tag
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

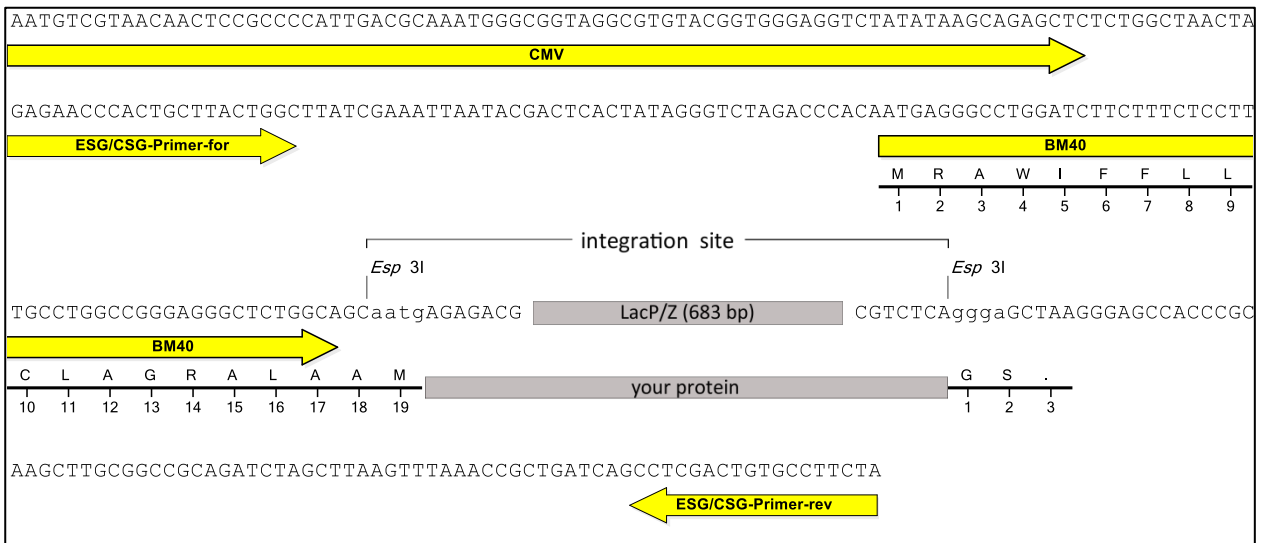
Important licensing information

This product is based on StarGate and CMV promoter technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

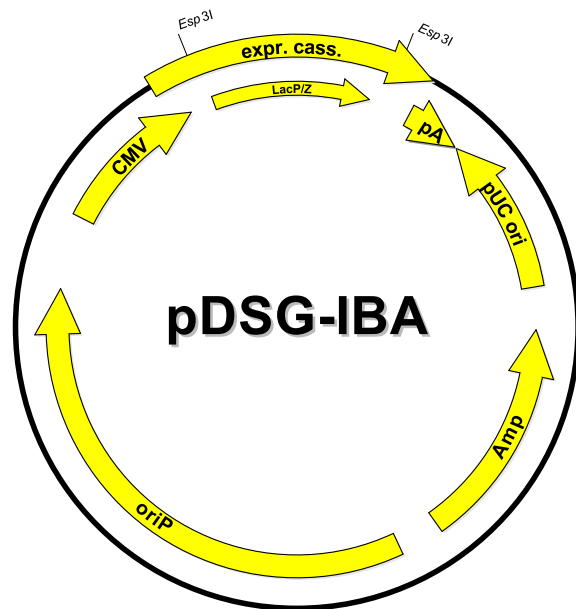
The owners of trademarks marked by "®" or "TM" are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Expression cassette of pDSG-IBAwt2



LacP/Z cassette = contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of *LacZ* mutations such as *LacZ* Δ M15 as in *E. coli* DH5 α 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)
pUCori origin	222	836	
Ampicillin resistance gene	999	1856	5' - GAGAACCCACTGCTTACTGGC -3'
oriPepisomal replication origin	2021	3996	ESG/CSG-Primer-rev (Cat. No. 5-0000-122)
CMV promoter	4277	4864	
forward primer binding site	4877	4897	5' - TAGAAGGCACAGTCGAGG -3'
BM40 signal sequence	4940	4993	
LacZ alpha fragment	5222	5523	
reverse primer binding site	5754	5771	
total vector length		5771	