

Data Sheet

pDSG-IBA45

Cat. No.: 5-5214-001

Version: 2.2

Lot No.: 5214-

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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 localized in the cytoplasm. • Optimized for MEXi (Mammalian expression system IBA)
Affinity tag	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> 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 N-terminus of the recombinant protein. 2. 6xHistidine-tag for the purification of recombinant protein via Ni-NTA resins. The 6xHistidine-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.



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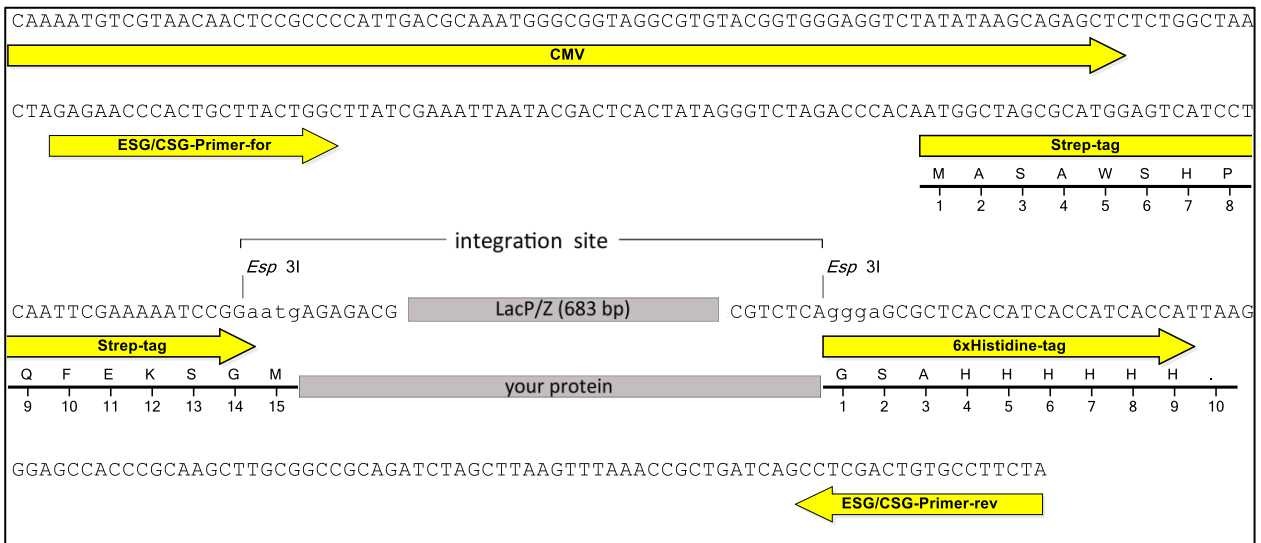
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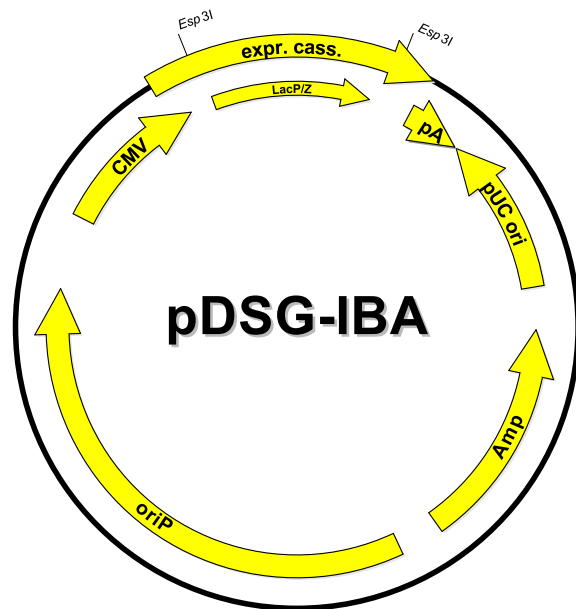
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Expression cassette of pDSG-IBA45



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)
pUCori origin	222	836	5' - GAGAACCCACTGCTTACTGGC -3'
Ampicillin resistance gene	999	1856	
oriPepisomal replication origin	2021	3996	
CMV promoter	4277	4864	ESG/CSG-Primer-rev (Cat. No. 5-0000-122)
forward primer binding site	4877	4897	5' - TAGAAGGCACAGTCGAGG -3'
<i>Strep-tag</i> II	4940	4981	
LacZ alpha fragment	5210	5611	
6xHistidine-tag	5675	5701	
reverse primer binding site	5763	5780	
total vector length		5780	