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Data Sheet

pDSG-IBA105

Cat. No.: 5-5222-001

Version: 3.0
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| | |
|-------------------------|--|
| Description | StarGate Acceptor Vector is a small transient expression vector especially developed for the use in combination with the MEXi mammalian expression system. In addition, it contains the human cytomegalovirus (CMV) immediate-early promoter for high-level expression and the origin of replication from Epstein-Barr Virus (oriP) for extrachromosomal replication driven by EBNA-1 expressed by MEXi-293E cells. The expressed recombinant protein will be localized in the cytoplasm. |
| Affinity tag | Twin-Strep-tag [®] is fused to the N-terminus of the recombinant protein. |
| Cloning Strategy | 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). |
| Resistance | Ampicillin: for selection of transformed E. coli cells |
| 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. |

For research use only

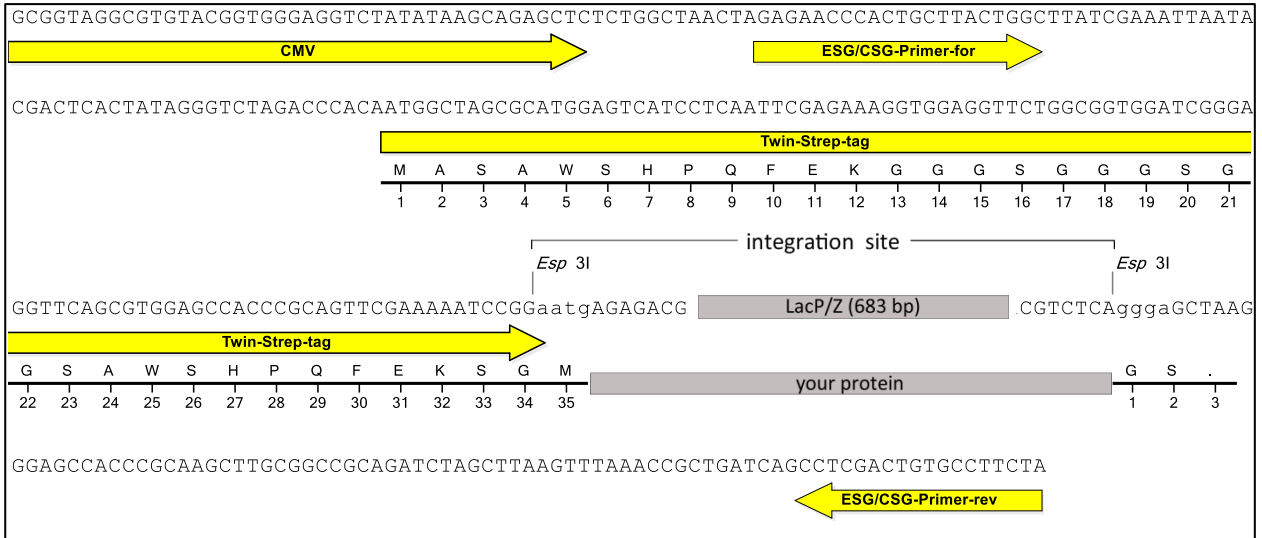
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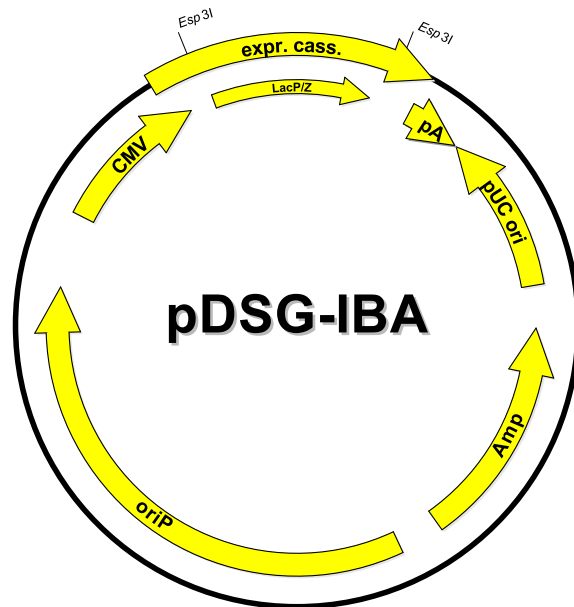
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Expression cassette of pDSG-IBA105



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 |
| pUC ori origin | 222 | 836 | |
| Ampicillin resistance gene | 999 | 1856 | 5' - GAGAACCCACTGCTTACTGGC -3' |
| oriP, episomal replication origin | 2021 | 3996 | |
| CMV promoter | 4277 | 4864 | |
| forward primer binding site | 4877 | 4897 | ESG/CSG-Primer-rev |
| Twin-Strep-tag® | 4940 | 5044 | 5' - TAGAAGGCACAGTCGAGG -3' |
| LacZ alpha fragment | 5270 | 5671 | |
| reverse primer binding site | 5802 | 5819 | |
| total vector length | | 5819 | |