

Data Sheet

pCSG-IBAwT2

Cat. No.: 5-5001-001

Version: 2.2

Lot No.: 5001-

Revision Date: 09.03.2020

| | |
|----------------------|---|
| Description | StarGate® Acceptor Vector designed for high-level episomal expression in mammalian hosts under G418 selection 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 • Neomycin resistance gene for G418 selection of transfected cells • Episomal replication through Epstein Barr Virus replication origin (oriP) and nuclear antigen encoded by EBNA-1 in human, primate and canine cells and through SV40 replication origin in cells latently infected with SV40 or that express the SV40 large T antigen (e.g. COS-1, COS-7). • Ampicillin resistance and ColE1 replication origin (pUC) for propagation in <i>E. coli</i>. • The expressed recombinant protein will be secreted into the medium. |
| 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.



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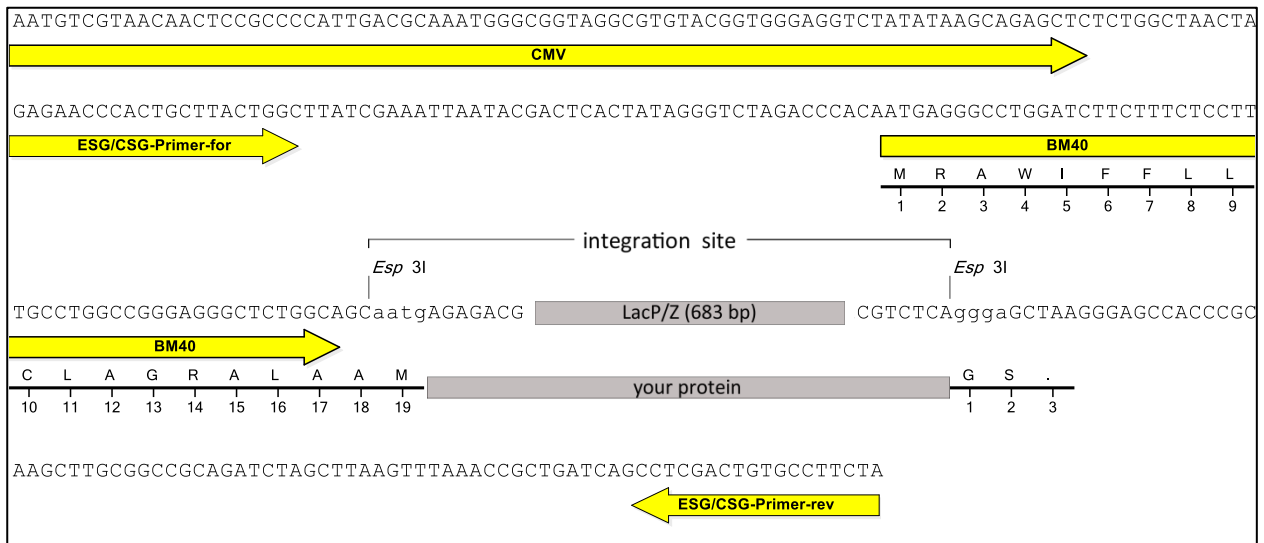
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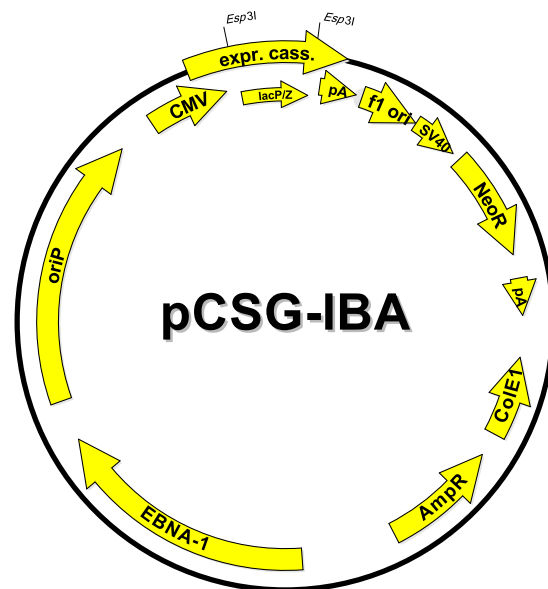
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Expression cassette of pCSG-IBAwt2



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) 5' - GAGAACCCACTGCTTACTGGC - 3' |
| f1 origin | 259 | 687 | |
| SV40 ori | 692 | 1035 | ESG/CSG-Primer-rev (Cat. No. 5-0000-122) 5' - TAGAAGGCACAGTCGAGG - 3' |
| Neomycin resistance gene | 1097 | 1891 | |
| ColE1ori | 2637 | 3222 | |
| Ampicillin resistance gene | 4253 | 3393 | |
| EBNA-1 | 4944 | 6869 | |
| oriPepisomal replication origin | 7170 | 9145 | |
| CMV promoter | 9426 | 10013 | |
| forward primer binding site | 10026 | 10046 | |
| BM40 signal sequence | 10089 | 10142 | |
| LacZ alpha fragment | 10371 | 10772 | |
| reverse primer binding site | 10903 | 10920 | |
| total vector length | | 10920 | |