

## Data Sheet

### pESG-IBA62

Cat. No.: 5-4462-001

Version: 2.2

Lot No.: 4462-

Revision Date: 04.03.2020

|                      |  |
|----------------------|--|
| <b>Description</b>   | 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"> <li>• Human cytomegalovirus (CMV) immediate-early promoter for high-level expression in a wide range of mammalian cells</li> <li>• Neomycin resistance gene for selection of stable cell lines</li> <li>• Episomal replication in cell lines that are latently infected with SV40 or that express the SV40 large T antigen (e.g. COS-1, COS-7)</li> <li>• The expressed recombinant protein will be localized in the cytoplasm.</li> </ul> |
| <b>Affinity tag</b>  | The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> <li>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 C-terminus of the recombinant protein.</li> <li>2. FLAG-tag for the purification of recombinant protein via anti-FLAG M2 agarose resins. The FLAG-tag is fused to the N-terminus of the recombinant protein.</li> </ol>   |
| <b>Resistance</b>    | Ampicillin   |
| <b>Form</b>          | 5 µg, dissolved in 20 µl TE buffer, pH 8,0: 10 mM Tris-HCl, 1 mM EDTA  |
| <b>Concentration</b> | 250 ng/µl  |
| <b>Stability</b>     | 12 months after shipping   |
| <b>Storage</b>       | recommended: 2-8 °C for frequent usage, -20 °C for long-term storage   |
| <b>Shipping</b>      | room temperature   |
| <b>Hazards</b>       | Product is not classified as hazardous according to (EC) No 1272/2008 [CLP].<br>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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#### For research use only

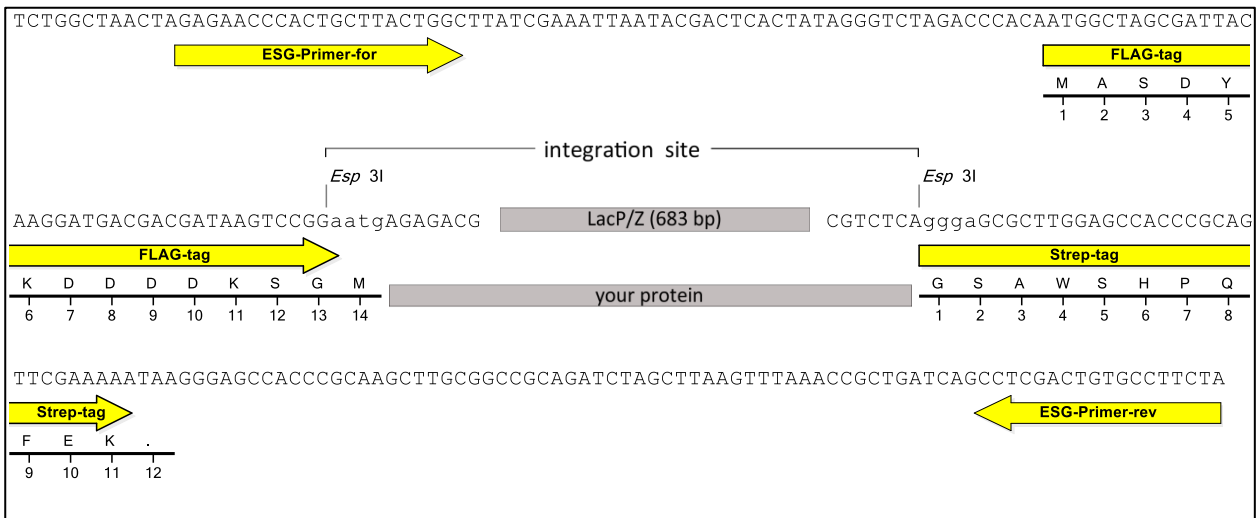
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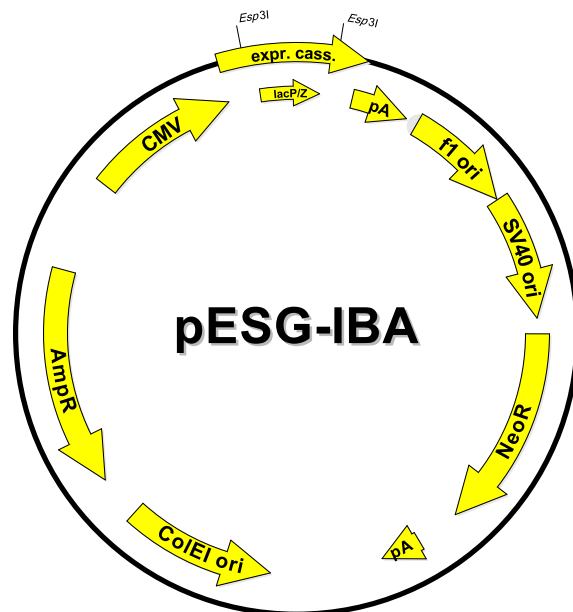
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## Expression cassette of pESG-IBA62



LacP/Z cassette = contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of *LacZ* mutations such as *LacZ* $\Delta$ M15 as in *E. coli* DH5 $\alpha$  or TOP10.  
 your protein = after StarGate cloning using *Esp3I* your gene of interest will be located here



| Features                    | from bp | to bp | Sequencing primer                    |
|-----------------------------|---------|-------|--------------------------------------|
| f1 origin                   | 259     | 687   | ESG-Primer-for (Cat. No. 5-0000-121) |
| SV40 ori                    | 692     | 1035  |                                      |
| Neomycin resistance gene    | 1097    | 1891  | 5' - GAGAACCCACTGCTTACTGGC -3'       |
| ColEI ori                   | 2637    | 3222  | ESG-Primer-rev (Cat. No. 5-0000-122) |
| Ampicillin resistance gene  | 3393    | 4253  |                                      |
| CMV promoter                | 4621    | 5208  | 5' - TAGAAGGCACAGTCGAGG -3'          |
| forward primer binding site | 5221    | 5241  |                                      |
| FLAG-tag                    | 5284    | 5322  |                                      |
| LacZ alpha fragment         | 5551    | 5952  |                                      |
| <i>Strep</i> -tagII         | 6016    | 6048  |                                      |
| reverse primer binding site | 6110    | 6127  |                                      |
| polyA signal sequence       | 1       | 213   |                                      |
| total vector length         |         | 6127  |                                      |