

Data Sheet

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Version:

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pYSG-IBA123

Cat. No.: 5-4723-001

Lot No.: 4723-

| Description Yeast Expression | StarGate® Acceptor Vector designed for high-level expression in yeast containing the following elements: Copper inducible promoter (CUP1) for controlled high-level expression URA3 auxotrophy marker for selection after transformation (do not use URA3 for selection during expression) LEU2d auxotrophy marker for selection to increase plasmid copy number for expression (do not use LEU2d for selection after transformation) 2μ ori for episomal replication in yeast The expressed recombinant protein will be localized in the cytoplasm. Cultivate transformed yeast cells under LEU2d selection until OD600 reaches 0.8 – 1.2 absorbance units. Induce protein expression by addition of copper sulphate to a final concentration of 0.5 mM. | | | |
|-------------------------------|---|--|--|--|
| Affinity tag | The recombinant protein will contain two affinity tags: GST-tag (Glutathione-S-Transferase) for the purification of recombinant protein. The affinity tag is fused to the N-terminus of the recombinant protein. After purification the GST may be removed by digesting with PreScission™ Protease. Strep-Tactin affinity tag (Twin-Strep-tag) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-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 | | | |
| | | | | |

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.

PreScission™ Protease is a trademark of GE HEALTHCARE

A Material Safety Data Sheet is provided.

Product is not classified as hazardous according to (EC) No 1272/2008 [CLP].

For research use only

Hazards

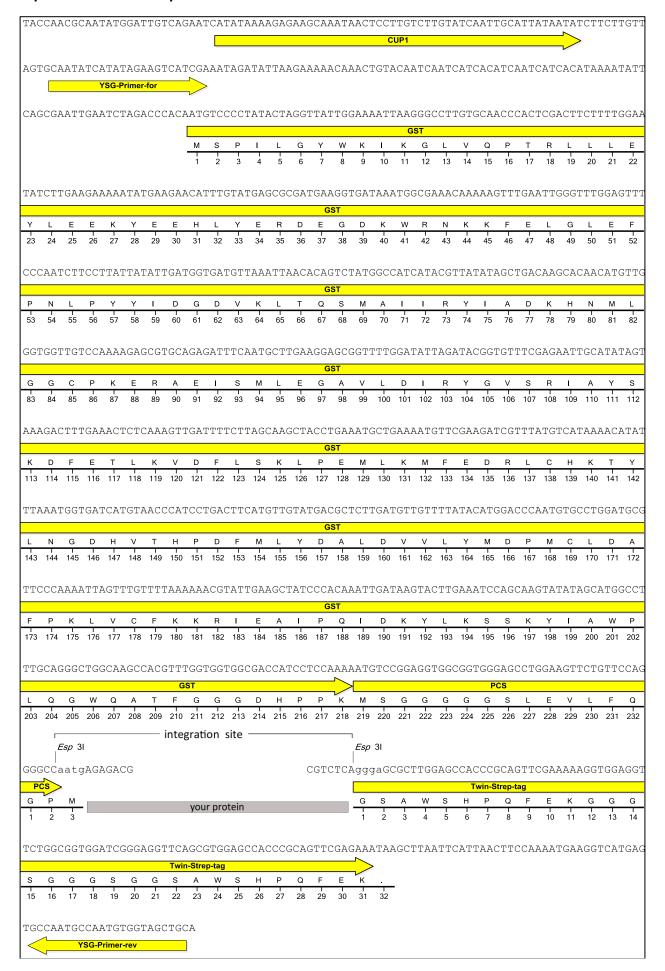
Important licensing information

This product is based on StarGate, One-STrEP-tag and GST-tag 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.

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Expression cassette of pYSG-IBA123



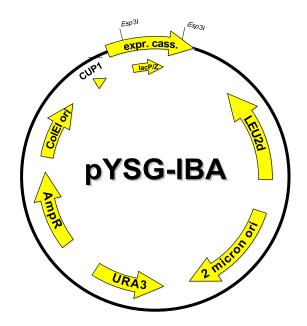
Expression cassette of pYSG-IBA123, continued

LacP/Z cassette =

contains LacZ alpha fragment under control of a separate promoter, which allows alpha complementation of LacZ mutations such as

your protein =

LacŻΔM15 as in E. coli DH5α or TOP10. after StarGate cloning using Esp3l your gene of interest will be located here



| Features | from bp | to bp | Sequencing primer |
|----------------------------------|---------|-------|---------------------------------------|
| LEU2d | 1668 | 574 | YSG-Primer-for (Cat. No. 5-0000-141) |
| 2 micron ori | 2032 | 3194 | |
| URA3 | 4293 | 3490 | 5'- CAATATCATATAGAAGTCATCGA -3' |
| Ampicillin resistance gene | 4725 | 5585 | |
| ColElori | 5756 | 6345 | YSG-Primer-rev (Cat. No. 5-0000-142) |
| CUP1 promoter | 6873 | 6925 | 13G-Fillier-lev (Cat. No. 5-0000-142) |
| forward primer binding site | 6939 | 6961 | 5'- GCAGCTACCACATTGGCATTGGC -3' |
| GST-tag | 7049 | 7702 | |
| PreScission™ Protease site (PCS) | 7703 | 7750 | |
| LacZ alpha fragment | 7979 | 8380 | |
| Twin-Strep-tag | 8444 | 8536 | |
| reverse primer binding site | 8577 | 8599 | |
| total vector length | | 8600 | |



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