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## **Data Sheet**

# pYSG-IBA167

Cat. No.: 5-4767-001

Version: 3.0

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Description	StarGate Acceptor Vector for high-level expression of target proteins in yeast. It carries the the copper-inducible promoter (CUP1) for controlled high-level expression, the URA3 auxotrophy marker for selection after transformation (do not use URA3 for selection during expression), the LEU2d auxotrophy marker for selection to increase plasmid copy number for expression (do not use LEU2d for selection after transformation), and the 2 micron ori for episomal replication in yeast.			
Affinity tag	Proximal Twin-Strep-tag® and distal FLAG-tag are 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).			
Yeast Expression	Cultivate transformed yeast cells under LEU2d selection until OD <sub>600</sub> reaches 0.8-1.2. Induce protein expression by addition of copper sulphate to a final concentration of 0.5 mM.			
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

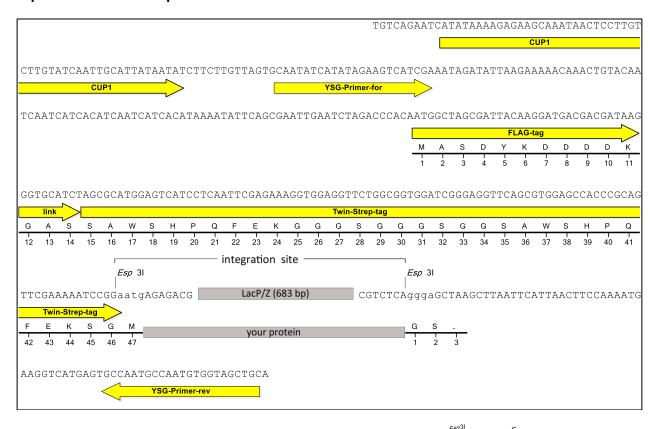
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### **Expression cassette of pYSG-IBA167**

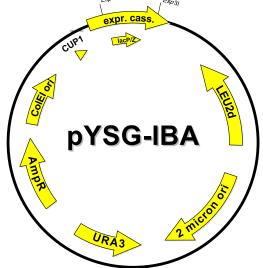


your protein =

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. 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
2 micron ori	2032	3194	
URA3	4293	3490	5'- CAATATCATATAGAAGTCATCGA -3'
Ampicillin resistance gene	4725	5585	
ColEI ori	5756	6345	-YSG-Primer-rev
CUP1 promoter	6873	6925	
forward primer binding site	6939	6961	5'- GCAGCTACCACATTGGCATTGGC -3'
FLAG-tag	7049	7081	
Twin-Strep-tag®	7091	7186	
LacZ alpha fragment	7415	7816	
reverse primer binding site	7926	7948	
total vector length		7949	