

IBA Lifesciences GmbH

Rudolf-Wissell-Str. 28 37079 Goettingen Germany

Tel.: +49 (0) 551-5 06 72-0

E-mail: info@iba-lifesciences.com www.iba-lifesciences.com

Data Sheet

pYSG-IBA64

Cat. No.: 5-4664-001

Version: 3.0

Revision Date: 27.07.2021

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	Strep-tag®II is fused to the N-terminus and FLAG-tag is fused to the C-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_{600} 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

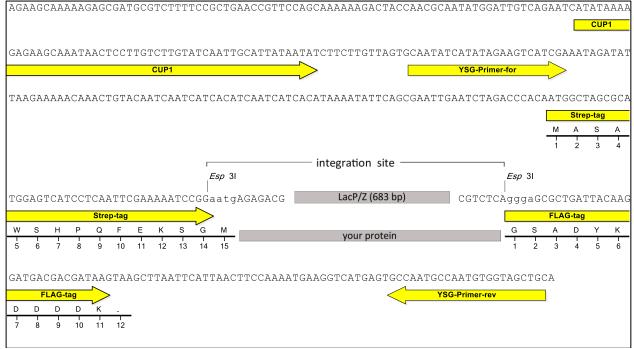
Trademark information

The owners of trademarks marked by """ or "TM" are identified at http://www.iba-lifesciences.com/patents.html. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Important licensing information

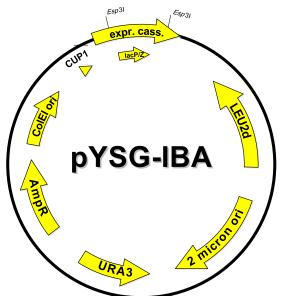
This product is covered by intellectual property (IP) rights and on completion of the sale IBA Lifesciences grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at http://www.iba-lifesciences.com/patents.html or upon inquiry at info@iba-lifesciences.com or at IBA Lifesciences 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.

Expression cassette of pYSG-IBA64



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

your protein =



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	
ColEl ori	5756	6345	-YSG-Primer-rev
CUP1 promoter	6873	6925	
forward primer binding site	6939	6961	5'- GCAGCTACCACATTGGCATTGGC -3'
Strep-tag®II	7049	7090	
LacZ alpha fragment	7319	7720	
FLAG-tag	7790	7816	
reverse primer binding site	7857	7879	
total vector length		7880	