

Data Sheet

pASG-IBA145

Cat. No.: 5-4145-001

Version: 2.3

Lot No.: 4145-

Revision Date: 03.03.2020

Description	StarGate Acceptor Vector for bacterial expression. <ul style="list-style-type: none"> The expression cassette is under transcriptional control of the tetracycline promoter/operator. Compatible with any <i>E. coli</i> strain. The <i>tet</i>-promoter works independently from the genetic background of <i>E. coli</i>. The expressed recombinant protein will be localized in the cytoplasm.
Bacterial Expression	Expression is induced upon addition of 200 µg anhydrotetracycline (# 2-0401-001; -002) per 1 liter <i>E. coli</i> shaking culture ($A_{550} = 0.5$).
Affinity tag	The recombinant protein will contain two affinity tags: <ol style="list-style-type: none"> Strep-Tactin® affinity tag (Twin-Strep-tag®) for purification of recombinant protein via Strep-Tactin resin. The Twin-Strep-tag is fused to the N-terminus of the recombinant protein. 6xHistidine-tag for the purification of recombinant protein via Ni-NTA resins. The 6xHistidine-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
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.

For research use only

Important licensing information

This product is based on Twin-Strep-tag technology 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.

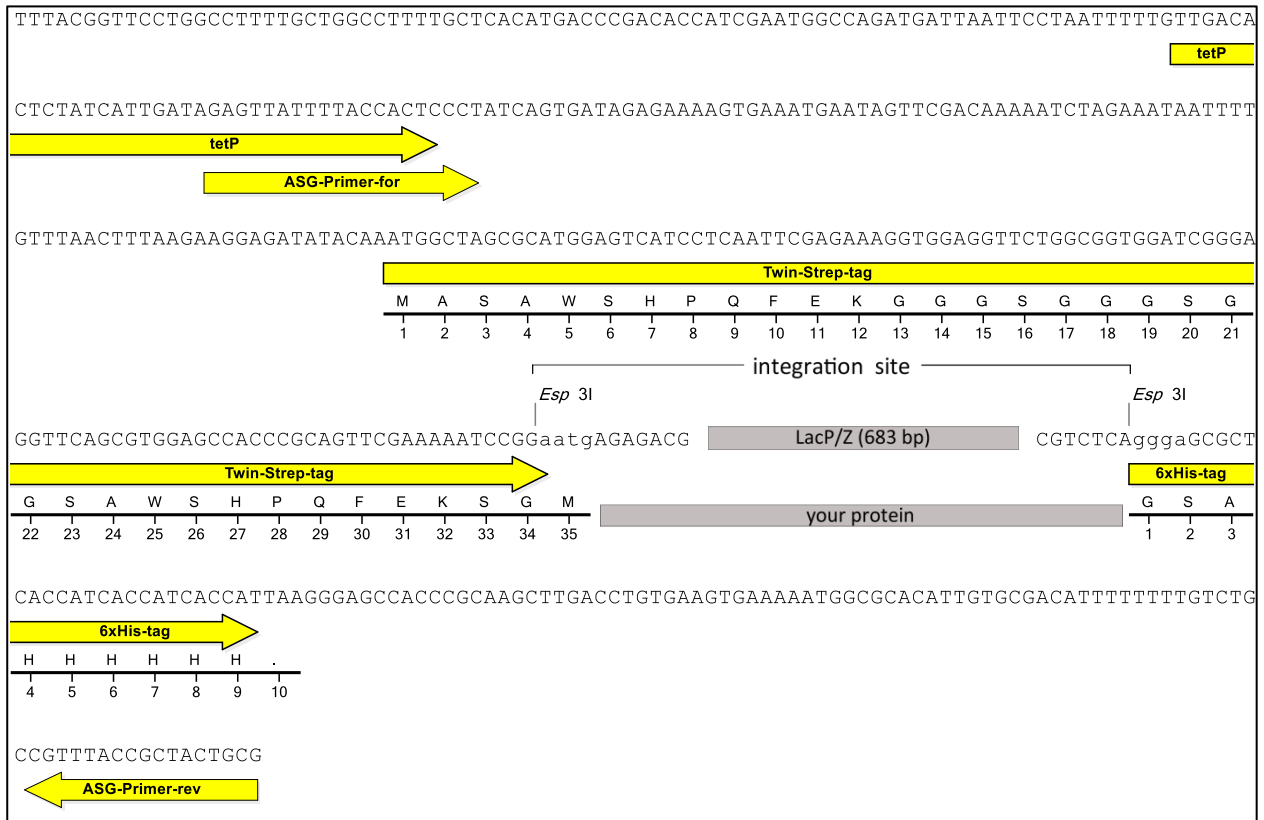
Trademark information

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.



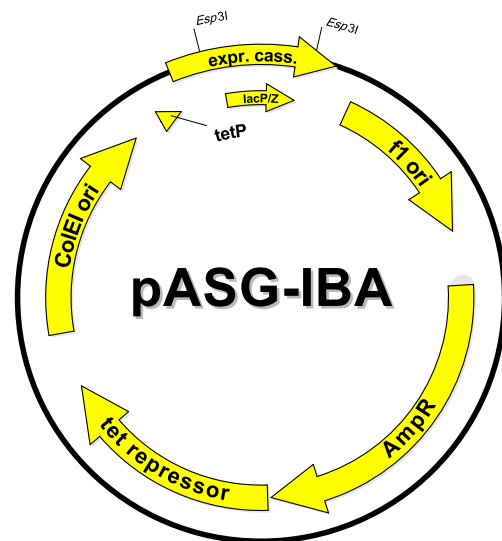
Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com>.

Expression cassette of pASG-IBA145



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
f1 origin	13	451	ASG-Primer-for (Cat. No. 5-0000-101)
AmpR resistance gene	600	1460	
Tet-repressor	1470	2093	5' - GAGTTATTTTACCCT -3'
ColEI ori	2246	2834	ASG-Primer-rev (Cat. No. 5-0000-102)
Tet promoter	2939	2975	
forward primer binding site	2959	2978	5' - CGCAGTAGCGGTAACG -3'
Twin-Strep-tag	3062	3163	
LacZ alpha fragment	3392	3793	
6xHistidine-tag	3857	3883	
reverse primer binding site	3957	3973	
total vector length		3973	