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Data Sheet

pASG-IBA2

Cat. No.: 5-4002-001

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| Description | StarGate Acceptor Vector for bacterial expression. The expression cassette is under transcriptional control of the tetracycline promoter/operator. The expressed recombinant protein will be secreted into the periplasm. | | |
|-------------------------|---|--|--|
| Affinity tag | Strep-tag [®] II is fused to the C-terminus of the recombinant protein. | | |
| Secretion | The <i>ompA</i> signal sequence directs the expressed protein into the periplasmic space and will be cleaved off during the translocation process | | |
| 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). | | |
| Expression strain | Any <i>E. coli</i> strain. The <i>tet</i> -promoter works independently from the genetic background of <i>E. coli</i> . | | |
| Bacterial Expression | Expression is induced upon addition of 200 μ g anhydrotetracycline per 1 liter <i>E. coli</i> shaking culture (A ₅₅₀ = 0.5). | | |
| 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. | | |

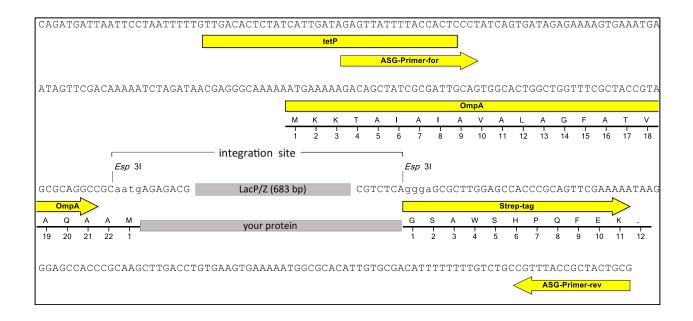
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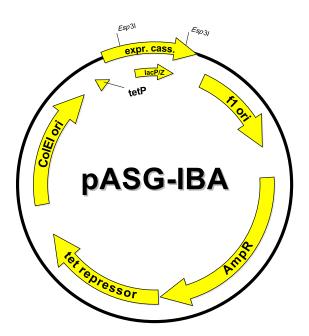
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| Features | from bp | to bp | Recommended Sequencing primer |
|-----------------------------|---------|-------|-------------------------------|
| f1 origin | 13 | 451 | ASG-Primer-for |
| AmpR resistance gene | 600 | 1460 | |
| Tet-repressor | 1470 | 2093 | 5'- GAGTTATTTTACCACTCCCT -3' |
| ColEl ori | 2246 | 2834 | |
| Tet promoter | 2939 | 2975 | |
| forward primer binding site | 2959 | 2978 | ASG-Primer-rev |
| OmpA signal sequence | 3041 | 3103 | 5' - CGCAGTAGCGGTAAACG -3' |
| LacZ alpha fragment | 3335 | 3736 | |
| Strep-tagll | 3800 | 3832 | |
| reverse primer binding site | 3906 | 3922 | |
| total vector length | | 3922 | |