

Data Sheet

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pPR-IBA102

Cat. No. : 2-3691-000

Lot No.: 3691 -

Last date of revision
September 08

Version 3691-2

Description	Expression plasmid for either <i>in vitro</i> transcription/translation or bacterial expression. The expression cassette is under transcriptional control of the strong bacteriophage T7 promoter.
<i>In vitro</i> Expression	T7 promoter-based expression; T7 RNA polymerase has to be included in the <i>in vitro</i> transcription/translation system
Bacterial Expression	T7 promoter-based expression; T7 RNA polymerase is produced in <i>E. coli</i> BL21 (DE3).
Affinity tag	Strep-Tactin® affinity tag (<i>One-STrEP-tag</i> ®) for <i>One-STrEP</i> -protein::protein analysis. The affinity tag is fused to the N-terminus of the recombinant protein
Resistance	Ampicillin
Form	Dissolved in 10 mM Tris/HCl pH 8.0, 1 mM EDTA; 20 µl
Concentration	250 ng/µl
Storage	4 °C for frequent usage; -20 °C for long-term storage
Shipment	Room temperature

For research use only

Important licensing information

This product is based on Strep-tag, One-STrEP-tag and T7 promoter 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-go.com/patents.html> or upon inquiry at info@iba-go.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Göttingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

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Multiple Cloning Site of pPR-IBA102

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1      GATCTCGATCCC GCGAAATTAATACGACTCACTATAGGGAGGCCACAACGGTTTCCCTCTAGAAATAATTTGTTTAACT  80
           forward primer                                     XbaI

           Strep-tag
           M A S W S H P Q F E K G G G S G G G S G

81     TTAAGAAGGAGATATACATATGGCTAGCTGGAGCCACCCGAGTTCGAGAAAGGTGGAGGTTCCGGAGGTGGATCGGGAG  160
           NdeI  NheI                                     Kpn2I

           One-STrEP-tag           link           D R G P E F E L G T R G S
           G G S W S H P Q F E K G A E T A V P N S S S V P G D P
161    GTGGATCGTGGAGCCACCCGAGTTCGAAAAAGcgcgCGAGACC GCGGTCCC GAATTCGAGCTCGGTACCCGGGGATCCC  240
           BbeI  BsaI    BsmFI    SstI  KpnI    BamHI
           EheI    PshAI           EcoRI           SmaI
           KasI    SacII
           NarI

           L E V D L Q G D H G L *
           R G R P A G G P W S L I S N *
           S R S T C R G T M V S D I *

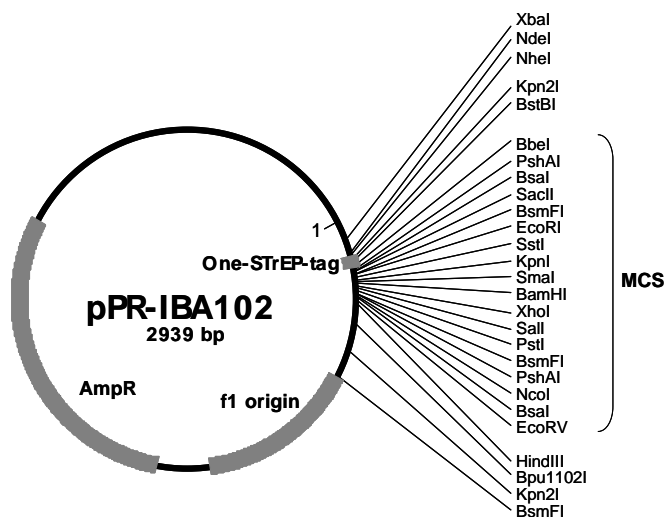
241    TCGAGGTCGACCTGCAGGGGACCATGGTCTCTgataTCTAACTAAGCTTGATCCGGCTGCTAACAAAGCCCGAAAGGAA  320
           SalI  PstI    BsmFI  BsaI  EcoRV    HindIII
           XhoI
           PshAI
           NcoI

321    GCTGAGTTGGCTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAACCGGTTCTTGAGGGGTTTTTT  400
           reverse primer
           Bpu1102I
  
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Please note: Restriction enzymes in bold cut twice. The *BsaI* sites (isoschizomer of *Eco31I*) at each end of the multiple cloning site are useful for precise and oriented insertion of the recombinant gene by one cleavage reaction only. The "link" contains a restriction site which can be used e.g. for subcloning the recombinant gene into pASK-IBA vectors for prokaryotic expression or pEXPR-IBA vectors for mammalian expression.

Features of pPR-IBA102

	from bp	to bp
forward primer binding site	20	39
One-STrEP-tag	100	192
multiple cloning site	193	274
reverse primer binding site	337	356
f1 origin	498	936
AmpR resistance gene	1084	1943
Col E1 origin	2121	2793



Cloning primers for the precise cloning using <i>BsaI</i> or <i>Eco31I</i>	Sequencing primers:
Forward: 5'- NNNNNNGGTCTCNGC GCC ^(N₂₀) NNN NNN...	Forward: 5'- TAATACGACTCACTATAGGG -3'
Reverse: 5'- NNNNNNGGTCTCNTA TCA ^(N₂₀) NNN NNN...	Reverse: 5'- TAGTTATTGCTCAGCGGTGG -3'