

Data Sheet

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pPR-IBA 101

Cat. No. : 2-3690-000

Lot No.: 3690 -

Last date of revision
September 08

Version 3690-2

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 C-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

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Multiple Cloning Site of pPR-IBA101

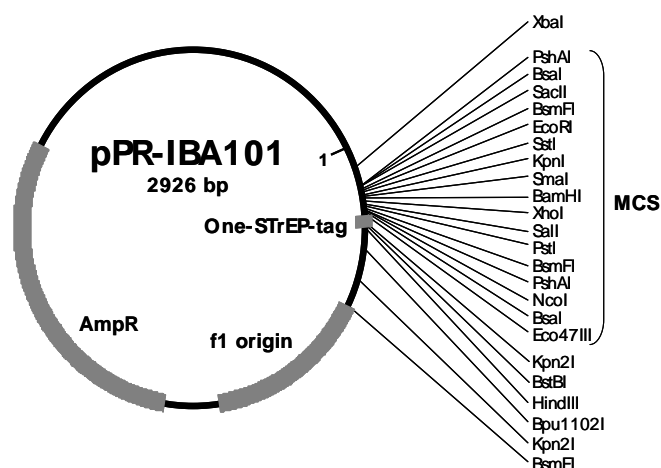
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1      GATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGAGGCCACAACGGTTTCCCTCTAGAAATAATTTGTTTAACT  80
      forward primer                                     XbaI
      M G D R G P E F E L G T R G S L E V D L
81     TTAAGAAGGAGATATACAaattgGGAGACCGCGGTCCCGAATTCGAGCTCGGTACCCGGGGATCCCTCGAGGTTCGACCTGC  160
      BsaI      BsmFI      SstI KpnI      BamHI      SalI PstI
      PshAI      EcoRI      SmaI      XhoI
      SacII
      link                                     One-STrEP-tag
      Q G D H G L S A W S H P Q F E K G G G S G G G S G G G
161    AGGGGGACCATGGTCTCAgagcTTGGAGCCACCCGAGTTCGAGAAAGGTGGAGGTTCCGGAGGTGGATCGGGAGGTGGA  240
      BsmFI BsaI Eco47III Kpn2I
      PshAI
      NcoI
      One-STrEP-tag
      S W S H P Q F E K *
241    TCGTGGAGCCACCCGAGTTCGAAAAATAAGCTTGATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTTGGCTG  320
      BstBI      HindIII
321    CTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGCTGAAAGGAGGA  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-IBA101

	from bp	to bp
forward primer binding site	20	39
multiple cloning site	100	183
One-STrEP-tag	184	273
reverse primer binding site	324	343
f1 origin	485	923
AmpR resistance gene	1071	1930
Col E1 origin	2108	2780



Cloning primers for the precise cloning using <i>BsaI</i> or <i>Eco31I</i>	Sequencing primers:
Forward: 5'- NNNNNNGGTCTCNA ATG ^(N₁₇) NNN NNN...	Forward: 5'- TAATACGACTCACTATAGGG -3'
Reverse: 5'- NNNNNNGGTCTCNGC GCT ^(N₂₀) NNN NNN...	Reverse: 5'- TAGTTATTGCTCAGCGGTGG -3'

* The ATG start codon is already included