

## Data Sheet

### pPR-IBA 1

Cat. no. : 2-1390-000

Lot no.: 1390 -

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<b>Description</b>	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.
<b><i>In vitro</i> Expression</b>	T7 promoter-based expression; T7 RNA polymerase has to be included in the <i>in vitro</i> transcription/translation system.
<b>Bacterial Expression</b>	T7 promoter-based expression; T7 RNA polymerase is produced in <i>E. coli</i> BL21 (DE3).
<b>Affinity tag</b>	<i>Strep</i> -Tactin affinity tag ( <i>Strep</i> -tag II) for the purification of recombinant protein. The affinity tag is fused to the C-terminus of the recombinant protein.
<b>Resistance</b>	Ampicillin
<b>Form</b>	Dissolved in 10 mM Tris/HCl pH 8.0, 1 mM EDTA; 20 $\mu$ l
<b>Concentration</b>	250 ng/ $\mu$ l
<b>Storage</b>	4 °C for frequent usage; -20 °C for long-term storage

#### For research use only

*Strep*-tag® technology for protein purification and detection is covered by US patent 5,506,121, UK patent 2272698 and French patent 93 13 066; the tetracycline promoter based expression system is covered by US patent 5,849,576 and *Strep*-Tactin® is covered by US patent 6,103,493. Further patent applications are pending world-wide. Purchase of reagents related to these technologies from IBA provides a license for non-profit and in-house research use only. Expression or purification or other applications of above mentioned technologies for commercial use require a separate license from IBA. A license may be granted by IBA on a case-by-case basis, and is entirely at IBA's discretion. Please contact IBA for further information on licenses for commercial use. *Strep*-tag® and *Strep*-Tactin® are registered trademarks of IBA GmbH.

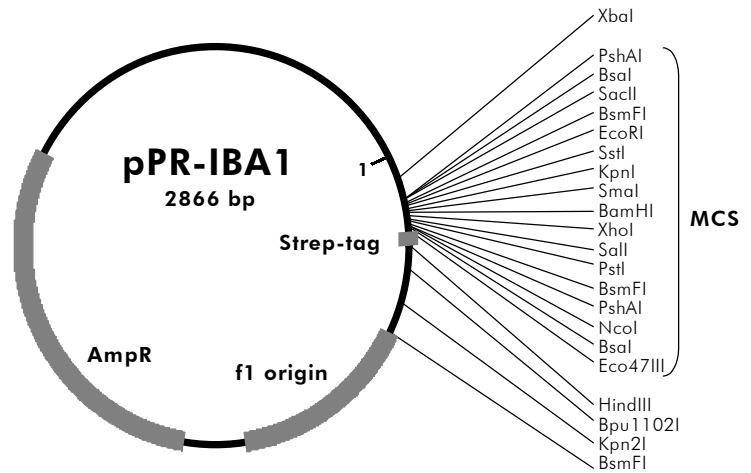
## Multiple Cloning Site of pPR-IBA1

1	<b>GATCTCGATCCCGCAAATTAATACGACTCACTATAGGGAGGCCACAACGGTTTCCCTCTAGAAATAATTTGTTTAACT</b> forward primer XbaI	80
	M G D R G P E F E L G T R G S L E V D L	
81	<b>TTAAGAAGGAGATATACAaatgGGAGACCGCGGTCCCGAATTCGAGCTCGGTACCCGGGGATCCCTCGAGGTCGACCTGC</b> <b>BsaI BsmFI SstI KpnI BamHI SalI PstI</b> <b>PshAI EcoRI SmaI XhoI</b> SacII	160
	link Strep-tag Q G D H G L S A W S H P Q F E K *	
161	<b>AGGGGACCATGGTCTCAgcgcTTGGAGCCACC CGCAGTTCGAAAAATAATAAGCTTGATCCGGCTGCTAACAAAGCCCG</b> <b>BsmFI BsaI Eco47III HindIII</b> <b>PshAI</b> NcoI	240
241	<b>AAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAACCGGTCTTGAGGG</b> reverse primer Bpu1102I	320

**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-IBA1

	from bp	to bp
forward primer binding site	20	39
multiple cloning site	100	183
Strep-tag	184	213
reverse primer binding site	264	283
f1 origin	425	863
AmpR resistance gene	1011	1870



Cloning primers for the precise cloning using <i>BsaI</i> or <i>Eco31I</i>	Sequencing primers:
Forward: 5'- NNNNNNGGTCTCNA ATG <sup>(N<sub>17</sub>)</sup> * NNN NNN...	Forward: 5'- TAATACGACTCACTATAGGG -3'
Reverse: 5'- NNNNNNGGTCTCNGC GCT <sup>(N<sub>20</sub>)</sup> NNN NNN...	Reverse: 5'- TAGTTATTGCTCAGCGGTGG -3'

\* The ATG start codon is already included