

## Data Sheet

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## pEXPR-IBA13

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<b>Description</b>	Eukaryotic expression vector designed for high-level stable and non-replicative transient expression in most mammalian hosts containing the following elements: <ul style="list-style-type: none"> <li>• Human cytomegalovirus (CMV) immediate-early promoter for high-level expression in a wide range of mammalian cells</li> <li>• Multiple cloning site</li> <li>• Neomycin resistance gene for selection of stable cell lines</li> <li>• Episomal replication in cell lines that are latently infected with SV40 or that express the SV40 large T antigen (e.g. COS-1, COS-7)</li> <li>• The expressed recombinant protein will be localized in the cytoplasm.</li> <li>• <i>Strep</i>-Tactin affinity tag (<i>Strep</i>-tag II) for the purification of recombinant protein. The affinity tag is fused to the N-terminus of the recombinant protein and can be removed by cleavage with thrombin. The cleavage is enhanced by a "kinker" site<sup>1)</sup>.</li> </ul>
<b>Resistance for selection in E. coli</b>	Ampicillin
<b>Form</b>	5 µg, dissolved in TE buffer (10 mM Tris/HCl pH 8.0, 1 mM EDTA); 20 µl
<b>Concentration</b>	250 ng/µl
<b>Storage</b>	4 °C for frequent usage, -20 °C for long-term storage
<b>Shipment</b>	Room temperature

1) Hakes, J.D. & Dixon, J.E. (1992): *Anal. Biochem.* 202, 293-298.

### 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.

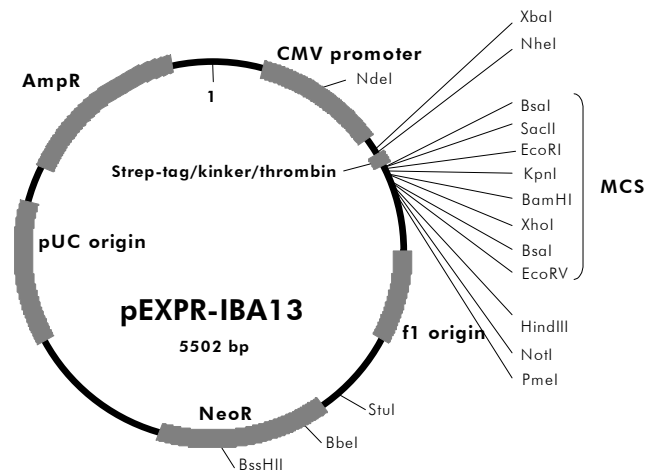
## Multiple Cloning Site of pEXPR-IBA13

733	ACTTTCCAAATGTCGTAACAACCTCCGCCCATTTGACGCAAATGGGCGGTAGGCGGTGTACGGTGGGAGGTCTATATAAGC	812
	CAAT	TATA
813	AGAGCTCTCTGGCTAACTAGAGAACCCTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGTCTAGACCCA	892
	forward primer	XbaI
	link                      Strep-tag                      kinker                      thrombin                      R P M A S W S H P Q F E K S G G G G G L V P R G S R D R                      E T A	
893	CCATGGCTAGCTGGAGCCACCCGAGTTCGAAAAATCTGGTGGTGGTGGTGGTCTGGTTCGGCTGGctccCGAGACCGC	972
	NheI	BsaI SacII
	R S R I R A R Y P G I P R G R P A G G P W S L I S N * V P N S S S V P G D P S R S T C R G T M V S D I * G P E F E L G T R G S L E V D L Q G D H G L *	
973	GGTCCGAATTCGAGCTCGGTACCCGGGATCCCTCGAGGTCGACCTGCAGGGGACCATGGTCTCTgataCTAACTAA	1052
	EcoRI                      KpnI                      BamHI XhoI                      BsaI                      EcoRV                      HindIII	
1053	GCTTGCGGCCGCAGATCTAGCTTAAGTTAAACCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCATCTGTTGTTTGC	11320
	NotI                      PmeI                      reverse primer	

**Please note:** Restriction enzymes in bold cut twice, however, not all multiple cutting restriction enzymes are shown. 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 bacterial expression.

## Features of pEXPR-IBA13

	from bp	to bp
CMV promoter	232	819
forward primer binding site	832	852
Strep-tag	904	927
kinker	928	945
thrombin cleavage site	946	963
multiple cloning site	964	1042
reverse primer binding site	1096	1113
f1 origin	1372	1800
Neomycin resistance gene	2210	3004
pUC origin	3691	4361
Ampicillin resistance gene	4506	5366



### Cloning primers for the precise cloning using *BsaI* or *Eco31I*

Forward: 5'-NNNNNNGGTCTCNC TCC <sup>(N<sub>20</sub>)</sup> NNN NNN ...

Reverse: 5'-NNNNNNGGTCTCNTA TCA <sup>(N<sub>20</sub>)</sup> NNN NNN ...

### Sequencing primers:

Forward: 5'- GAGAACCCTGCTTACTGGC -3'

Reverse: 5'- TAGAAGGCACAGTCGAGG -3'