



## Data Sheet

# pEXPR-IBA3

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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 C-terminus of the recombinant protein.</li></ul>
<b>Resistance for selection in <i>E. coli</i></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

## 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.

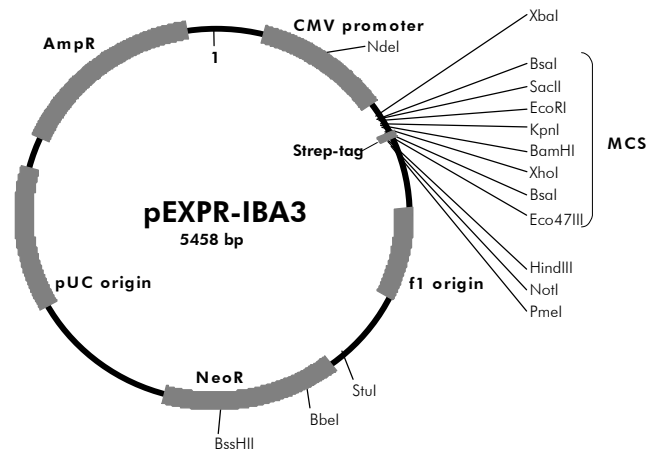
## Multiple Cloning Site of pEXPR-IBA3

721	AAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCATTTGACGCAAATGGGCGGTAGGCGGTACGGTGGGAG	800
	CAAT	
801	GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAG	880
	TATA <span style="margin-left: 200px;">forward primer</span>	
	M G D R G P E F E L G T R G S L E V D L Q G	
881	GGTCTAGACCCACaatgGGAGACCGGGTCCCGAATTCGAGCTCGGTACCCGGGATCCCTCGAGGTCGACCTGCAGGGG	960
	XbaI <span style="margin-left: 50px;">BsaI</span> <span style="margin-left: 50px;">EcoRI</span> <span style="margin-left: 50px;">KpnI</span> <span style="margin-left: 50px;">BamHI</span> <span style="margin-left: 50px;">XhoI</span> SacII	
	link <span style="margin-left: 100px;">Strep-tag</span>	
	D H G L S A W S H P Q F E K *	
961	GACCATGGTCTCagcgcTTGGAGCCACCCGAGTTCGAAAAATAATAAGCTTTCGGCCGAGATCTAGCTTAAGTTTAAA	1040
	BsaI <span style="margin-left: 20px;">Eco47III</span> <span style="margin-left: 150px;">HindIII</span> <span style="margin-left: 150px;">NotI</span> <span style="margin-left: 150px;">PmeI</span>	
1041	CCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTGCCCTCCCCCGTGCCTTCTTGACCCTGG	1120
	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.

## Features of pEXPR-IBA3

	from bp	to bp
CMV promoter	232	819
forward primer binding site	832	852
multiple cloning site	898	978
Strep-tag	979	1008
reverse primer binding site	1052	1069
f1 origin	1328	1756
Neomycin resistance gene	2166	2960
pUC origin	3647	4317
Ampicillin resistance gene	4462	5322



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'- GAGAACCCTGCTTACTGGC -3'
Reverse: 5'- NNNNNNGGTCTCNGC GCT NNN NNN ...	Reverse: 5'- TAGAAGGCACAGTCGAGG -3'

\* The ATG start codon is already included