

Data Sheet

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pEXPR-IBA103

Cat. No. : 2-3503-000

Lot No.: 3503-

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Version 3503-6

Description	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"> • Human cytomegalovirus (CMV) immediate-early promoter for high-level expression in a wide range of mammalian cells • Multiple cloning site • Neomycin resistance gene for selection of stable cell lines • 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) • The expressed recombinant protein will be localized in the cytoplasm. • <i>Strep-Tactin</i> affinity tag (<i>One-STrEP</i>-tag) for <i>One-STrEP</i>-protein::protein analysis. The affinity tag is fused to the C-terminus of the recombinant protein.
Resistance for selection in E. coli	Ampicillin
Form	5 µg lyophilized, to be dissolved in TE buffer (10 mM Tris/HCl pH 8.0, 1 mM EDTA)
Storage	4 °C for frequent usage, -20 °C for long-term storage
Shipment	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.

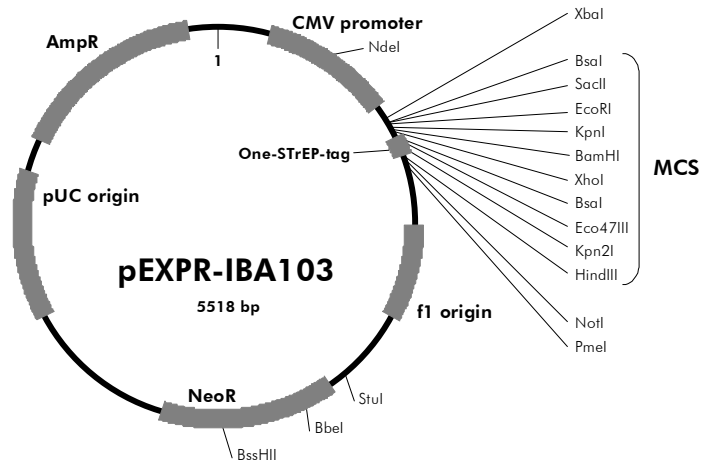
Multiple Cloning Site of pEXPR-IBA103

721	AAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCATTTGACGCAAATGGGCGGTAGGCGGTACGGTGGGAG CAAT	800
801	GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGA <u>AGCCACTGCTTACTGGCTTATCGAAATAATACGACTCACTATAG</u> TATA forward primer	880
	M G D R G P E F E L G T R G S L E V D L Q G	
881	GGTCTAGACCCACaa tg GGAGACCGGGTCCCGAA TTCGAGCTCGGTACCCGGGGATCCCTCGAGGTCGACCTGCAGGGG XbaI BsaI EcoRI KpnI BamHI XhoI SacII	960
	link One-StrEP-tag 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 S W	
961	GACCATGGTCTCagc g TTGGAGCCACCCGAGTTCGAGAAAGGTGGAGGTCCGGAGGTGGATCGGGAGGTGGATCGTG BsaI Eco47III Kpn2I	1040
	One-StrEP-tag S H P Q F E K *	
1041	GAGCCACCCGAGTTCGAAAAATAAAGCTTGC GGCCGAGATCTAGCTTAAAGTTTAAACCGCTGATCAGCCTCGACTG HindIII PmeI reverse-	1120
	NotI	
1121	<u>TGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCTCCCGTGCCTTCCTTGACCCCTGGAAGGTGCCACTCCCACTGTC</u> primer	1200

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-IBA103

	from bp	to bp
CMV promoter	232	819
forward primer binding site	832	852
multiple cloning site	898	978
One-StrEP-tag	979	1065
reverse primer binding site	1112	1129
f1 origin	1388	1816
Neomycin resistance gene	2226	3020
pUC origin	3707	4377
Ampicillin resistance gene	4522	5382



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

Forward: 5'- NNNNNNGGTCTCNA ATG ^{(N17)*} NNN NNN ...
Reverse: 5'- NNNNNNGGTCTCNGC GCT ^(N20) NNN NNN ...

Sequencing primers:

Forward: 5'- GAGAACCCACTGCTTACTGGC -3'
Reverse: 5'- TAGAAGGCACAGTCGAGG -3'

* The ATG start codon is already included