

Data Sheet

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pEXPR-IBA7

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Version 1907-5

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</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 factor Xa.
Resistance for selection in E. coli	Ampicillin
Form	5 µg, dissolved in TE buffer (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

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.

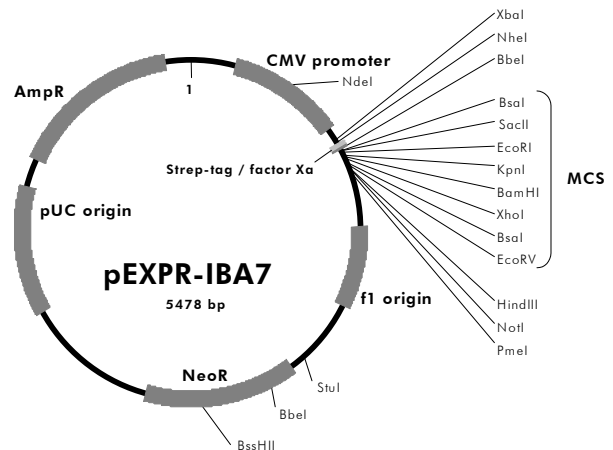
Multiple Cloning Site of pEXPR-IBA7

721	AAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCATTTGACGCAAATGGGCGGTAGGCGGTACGGTGGGAG	800
	CAAT	
801	GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAG	880
	TATA forward primer	
	<p style="text-align: center;"> R P R S R I E T A V P N S link Strep-tag factor Xa M A S W S H P Q F E K I E G R R D R G P E F </p>	
881	GGTCTAGACCCACCATGGCTAGCTGGAGCCACCGCAGTTCGAAAAAATCGAAGGgcgcCGAGACCGCGGTCCCGAATTC	960
	XbaI NheI BbeI BsaI EcoRI	
		EheI SacII
		KasI
		NarI
	<p style="text-align: center;"> R A R Y P G I P R G R P A G G P W S L I S N * S S V P G D P S R S T C R G T M V S D I * E L G T R G S L E V D L Q G D H G L * </p>	
961	GAGCTCGGTACCCGGGATCCCTCGAGGTCGACCTGCAGGGGACCATGGTCTCTgataTCTAACTAAGCTTGGCGCCGC	1040
	KpnI BamHI XhoI BsaI EcoRV HindIII NotI	
1041	AGATCTAGCTTAAGTTTAAACCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTGCCCTCCCC	1120
	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-IBA7

	from bp	to bp
CMV promoter	232	819
forward primer binding site	832	852
Strep-tag	904	927
factor Xa cleavage site	928	939
multiple cloning site	940	1018
reverse primer binding site	1072	1089
f1 origin	1348	1776
Neomycin resistance gene	2186	2980
pUC origin	3667	4337
Ampicillin resistance gene	4482	5342



Cloning primers for the precise cloning using <i>BsaI</i> or <i>Eco31I</i>	Sequencing primers:
Forward: 5'-NNNNNNGGTCTCNG CGC ^(N₂₀) NNN NNN ...	Forward: 5'- GAGAACCCTGCTTACTGGC -3'
Reverse: 5'-NNNNNNGGTCTCNTA TCA ^(N₂₀) NNN NNN ...	Reverse: 5'- TAGAAGGCACAGTCGAGG -3'