

Data Sheet

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pEXPR-IBA15

Cat. no. : 2-1915-000

Lot no.: 1915-

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July 05

Version 1915-5

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 enterokinase.
Resistance for selection in <i>E. coli</i>	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.

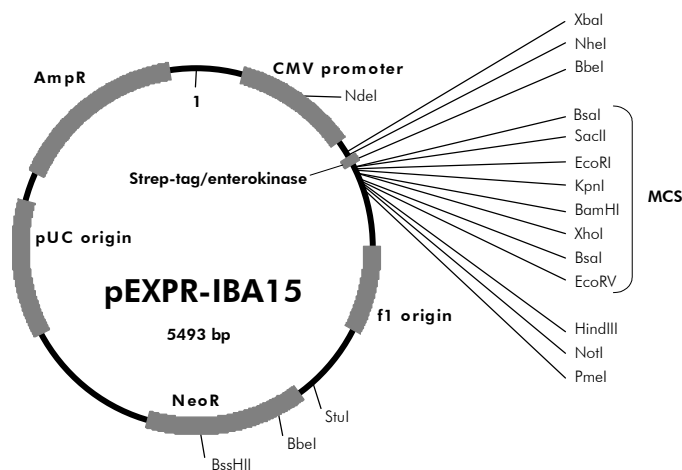
Multiple Cloning Site of pEXPR-IBA15

721	AAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCATTCGACGCAAAATGGGCGGTAGGCGGTACGGTGGGAG	800
	CAAT	
801	GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCACCTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAG	880
	TATA forward primer	
	<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> link Strep-tag enterokinase R </div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> M A S W S H P Q F E K G A D D D D K G S R D E T </div>	
881	GGTCTAGACCCACCATGGCTAGCTGGAGCCACCCGAGTTTCGAAAAAGGCGCCGACGACGACGACAAGGGctccCGAGAC	960
	<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> XbaI NheI BbeI BsaI SacII </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> EheI </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> KasI </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> NarI </div>	
	<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> P 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 * </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> A V P N S S S V P G D P S R S T C R G T M V S D I * </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> R G P E F E L G T R G S L E V D L Q G D H G L * </div>	
961	CGCGGTCCCGAATTCGAGCTCGGTACCCGGGATCCCTCGAGGTCGACCTGCAGGGGACCATGGTCTCTgataTCTAAC	1040
	<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> EcoRI KpnI BamHI XhoI BsaI EcoRV </div>	
1041	TAAGCTTGGCGCCGAGATCTAGCTTAAGTTTAAACCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGT	1120
	<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> HindIII PmeI reverse primer </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> NotI </div>	

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-IBA15

	from bp	to bp
CMV promoter	232	819
forward primer binding site	832	852
Strep-tag	904	927
enterokinase cleavage site	928	948
multiple cloning site	949	1033
reverse primer binding site	1087	1104
f1 origin	1363	1791
Neomycin resistance gene	2201	2995
pUC origin	3682	4352
Ampicillin resistance gene	4497	5357



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

Forward: 5'-NNNNNNGGTCTCNC TCC ^(N₂₀) NNN NNN ...

Reverse: 5'-NNNNNNGGTCTCNTA TCA ^(N₂₀) NNN NNN ...

Sequencing primers:

Forward: 5'- GAGAACCCTACTGCTTACTGGC -3'

Reverse: 5'- TAGAAGGCACAGTCGAGG -3'