

Product datasheet for **RG221961**

LBP (NM_004139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LBP (NM_004139) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LBP
Synonyms:	BPIFD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221961 representing NM_004139
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCCTTGCCAGAGCCCTGCCGTCCATACTGCTGGCATTGCTGCTTACGTCCACCCAGAGGCTC
 TGGGTGCCAACCCGGCTTGGTCGCCAGGATCACCGACAAGGACTGCAGTATGCGGCCAGGAGGGCT
 ATTGGCTCTGCAGAGTGAGCTGCTCAGGATCACGCTGCCTGACTTCACCGGGACTTGAGGATCCCCAC
 GTCGGCCGTGGGCGCTATGAGTTCACAGCCTGAACATCCACAGCTGTGAGCTGCTTCACTCTGCGCTGA
 GGCCTGTCCCTGGCCAGGGCCTGAGTCTCAGCATCTCCGACTCCTCCATCCGGGTCCAGGCAGGTGAA
 GGTGCGCAAGTATTCTCAAACACAGGGCTCCTTTGATGTGAGTGTCAAGGGCATCAGCATTCGGTC
 AACCTCCTGTTGGCAGCGAGTCTCCGGGAGGCCACAGTTACTGCCTCCAGCTGCAGCAGTGACATCG
 CTGACGTGGAGGTGGACATGTCCGGGAGACTTGGGGTGGCTGTTGAACCTTCCACAACCAGATTGAGTC
 CAAGTTCAGAAAGTACTGGAGAGCAGGATTTGCGAAATGATCCAGAAATCGGTGTCCTCCGATCTACAG
 CCTATCTCCAAACTCTGCCAGTTACAACAGAGATTGACAGTTTCGCGGACATTGATTATAGCTTAGTGG
 AAGCCCTCGGGCAACAGCCAGATGCTGGAGGTGATGTTAAGGGTGAATCTTTCATCGTAACCACCG
 TTCTCCAGTTACCTCCTTGCTGCACTCATGAGCCTTCTGAGGAACACAACAAATGGTCTACTTTGCC
 ATCTCGGATATGTCTTCAACACGGCCAGCCTGGTTTATCATGAGGAAGGATATCTGAACCTCTCCATCA
 CAGATGACATGATACCGCTGACTCTAATATCCGACTGACCACCAAGTCTTCCGACCCTTCGTCACCG
 GTTAGCCAGGCTTACCCCAACATGAACCTGGAACCTCCAGGGATCAGTGCCTCTGCTCCGCTCTGAAC
 TTCAGCCCTGGGAATCTGTCTGTGGACCCTATATGGAGATAGATGCCTTTGTGCTCTGCCAGCTCCA
 GCAAGGAGCCTGTCTTCCGGCTCAGTGTGGCCACTAATGTGTCGCCACCTTGACCTTCAATACCAGCAA
 GATCACTGGGTTCTGAAGCCAGGAAAGTAAAAGTGGAAGTGAAGAATCCAAAGTTGGACTATTAAT
 GCAGAGCTGTTGGAAGCGCTCCTCAACTATTACATCCTTAACACCTTCTACCCCAAGTTCATGATAAGT
 TGGCCGAAGGCTTCCCTTCTCTGCTGAAGCGTGTTCAGCTCTACGACCTTGGCTGCAGATCCATAA
 GGACTTCTGTTCTTGGGTGCCAATGTCCAATACATGAGAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221961 representing NM_004139
 Red=Cloning site Green=Tags(s)

MGALARALPSILLALLLSTPEALGANPGLVARITDKGLQYAAQEGLLALQSELLRITLPDFTGDLRIPH
 VGRGRYEFHSLNIHSCCELLHSALRPVPGQLSLISDSSIRVQGRWVKRKSFFKLQGSFDVSVKGISISV
 NLLLGSSESSGRPTVTASSCSSDIADVEVDMSGDLGWLLNLFHNQIESKFQKVLESRICEMIQKSVSSDLQ
 PYLQTLPVTTIDSFADIDYSLVEAPRATAQMLEVMFKGEIFHRNHRSPVTLAAMVSLPEEHNKMYVFA
 ISDYVFNTASLVYHEEGLNFSITDDMIPPDSNIRLTTKFRPFVPRLARLYPNMNLQGSVPSAPLLN
 FSPGNLSVDPYMEIDAFVLLPSSSKEPVFRLSVATNVSATLTFNTSKITGFLKPGKVKVELKESKVLGFLN
 AELLEALLNYYILNTFYPKFNDKLAEGFPLLLKRVQLYDLGLQIHKDFLFLGANVQYMRV

TRTRPLE - GFP Tag - V

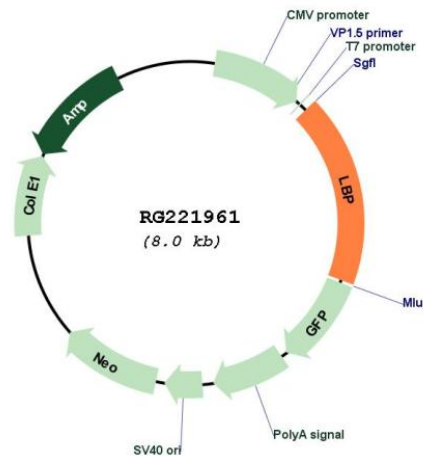
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004139

ORF Size: 1443 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_004139.3
RefSeq Size:	1823 bp
RefSeq ORF:	1446 bp
Locus ID:	3929
UniProt ID:	P18428
Cytogenetics:	20q11.23
Domains:	BPI1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Toll-like receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene is involved in the acute-phase immunologic response to gram-negative bacterial infections. Gram-negative bacteria contain a glycolipid, lipopolysaccharide (LPS), on their outer cell wall. Together with bactericidal permeability-increasing protein (BPI), the encoded protein binds LPS and interacts with the CD14 receptor, probably playing a role in regulating LPS-dependent monocyte responses. Studies in mice suggest that the encoded protein is necessary for the rapid acute-phase response to LPS but not for the clearance of LPS from circulation. This protein is part of a family of structurally and functionally related proteins, including BPI, plasma cholesteryl ester transfer protein (CETP), and phospholipid transfer protein (PLTP). [provided by RefSeq, Apr 2012]</p>