

Product datasheet for **MG207709**

Lbp (NM_008489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lbp (NM_008489) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lbp
Synonyms:	Bpifd2; Ly88
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207709 representing NM_008489
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGCTGGGACTGGACCTCTGCTCTACATTGCTGGGGCTGCTGTTCTGTCCATACAGGAACTG
 GCGGTGTCAACCCGGTGTGGTGCCAGGATCACCGACAAGGGCCTGGCCTACGCGGCCAAGGAGGGCT
 GGTGGCTCTGCAGAGAGAGCTGTACAAGATCACACTACCGGACTTCAGCGGGGACTTCAAGATCAAGGCC
 GTGGGTGCTGGGCACTACGAGTTTCATAGCCTGGAGATTCAGAAGTGTGAGCTGCGTGGCTCCTCTCTGA
 AGCTGCTCCCAGGCCAGGGCCTGAGTCTCGCCATCTGACTCTTCCATCGGTGCCGAGGCAAATGGAA
 GGTGCGCAAATCCTTCTGAACTTCATGGCTCCTTTGACCTGGATGTCAAAGGTGTACCATTTTCAGTG
 GACCTCCTCTGGGCATGGATCCCTCAGGGCGGCCACAGTCTCTGCCTCTGGGTGCAGCAGCCGATTT
 GTGATTTGGATGTGCACATATCAGGAAATGTGGGGTGGCTGCTGAATCTCTTCCACAACCAGATCGAGTC
 GAAGCTCCAAAAGTACTGGAGAATAAGTTTTGTGAGATGATCCAGAAGTCTGTGACCTCTGACCTCGAG
 CCTATCTCCAGACTCTGCCAGTCACAGCAGAGATCGACAATGTCTGGGCATTGACTACAGTTTGGTGG
 CGGCTCCCAAGCGAAGGCCAGGTGCTGGATGTCATGTTAAGGGTGAATTTTAAATCGGAATCACCG
 CTCTCCAGTTGCTACCCCACTCCGACCATGAGCCTACCTGAGGACAGTAAGCAAATGGTCTACTTTTCC
 ATCTCAGATCATGCCTTCAACATAGCAAGCCGGGTTATCACCAGGCTGGGTACCTGAACTTTCCATCA
 CAGATGACATGTTACCACCTGACTCCAGCATCCGGTTGAACACCAAGGCCTTCCGTCCCTTCACTCCCA
 GATATACAAAAGTATCCCGACATGAACTGGAGCTCCTTGAACAGTGGTCTCTGCCCGATTCTGAAT
 GTCAGTCTGGGAATCTGCTCTTGGCCCCACAGATGGAGATTGAAGGCTTTGTGATCTGCCACCTCCG
 CCCGGAACTGTCTTCCGGCTTGGCGTGGTCACTAATGTATTTGCCTCATTAACTTTCAACAACAGCAA
 GGTTACCGGGATGCTGCACCCAGACAAGGCACAAGTGAGACTGATCGAATCCAAAAGTCGGCATGTTCAAT
 GTGAACCTGTTCCAGGCATTCTTAACTACTACCTTCTCAACAGCCTCTACCCTGATGTCATGCTGAGC
 TGGCCAGGGCTTCCCCCTCCCTCTGCCAAGGCATATTAGCTCCACGACCTCGACTTCCAGATCCGCAA
 GGACTTCTTACTTGGGTGCCAATGTCCAGTACATGAGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207709 representing NM_008489
 Red=Cloning site Green=Tags(s)

MKAGTGPLLSTLLGLLFLSIQGTGGVNPVVARITDKGLAYAAKEGLVALQRELYKITLPDFSGDFKIK
 VGRGQYEFHSLEIQNCELRGSSLKLLPGQGLSLAISDSSIGVRGKWKVRKSFLLKLGHSFDLVDKGV
 TISV DLLLGMDFSGRPTVSASGSSRICDLVDHISGNVWLLNLFHNQIESKLQKVLNKCMIQKSVTSD
 LQ PYLQTLPVTAEIDNVLGIDYSLVAAPQAKAQVLDVMFKGEIFNRNHRSPVATPTPTMSLPEDSKQ
 MYYFS ISDHAFNIASRVYHQAGYLNFSITDDMLPPDSSIRLNTKAFRPFPTQIYKYPDMKLELLGTV
 VSAPILN VSPGNLSLAPQMEIEGFVILPVSAREPVFRLGVVTNVFASLTFNNSKVTGMLHPDKAQVRL
 IESKVMGMFN VNLFQAFLLNYLLNLSYPDVNAELAQGFPLPLPRHIQLHDLDFQIRKDFLYLGANVQYMRV

TRTRPLE - GFP Tag - V

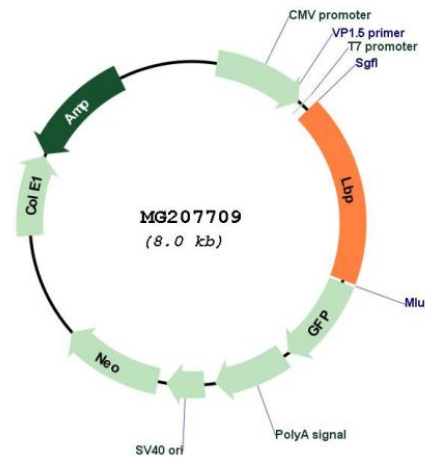
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008489

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:

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_008489.2](#), [NP_032515.2](#)

RefSeq Size: 2528 bp

RefSeq ORF: 1446 bp

Locus ID: 16803

UniProt ID: [Q61805](#)

Cytogenetics: 2 78.72 cM

Gene Summary: Plays a role in the innate immune response. Binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria (PubMed:9144073). Acts as an affinity enhancer for CD14, facilitating its association with LPS (By similarity). Promotes the release of cytokines in response to bacterial lipopolysaccharide (PubMed:24380872).[UniProtKB/Swiss-Prot Function]