

Product datasheet for **MC219788**

Lbr (NM_133815) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lbr (NM_133815) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lbr
Synonyms:	A1505894; ic
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219788 representing NM_133815
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAGTAGGAAGTTTGTGAGGGTGAAGTGGTCAGAGGCCGATGGCCTGGGAGCTCCCTTTATTATG
 AAGTAGAGATTCTGAGCCACGACAACAAATCCCAGCTCTACACTGTAAAATACAAAGATGGCACCGAACT
 GGAAGTGAAGGAGAGTGATATCAAGCCTTTAAAATCCTTTAAGCAAAGAAAAAGTGGCTCGATTTCCAGC
 TCTCCCTCTCGACGCCGTGGCAGCCGACGCCGCTCAAGATCACGTTCCCGATCCCGGGCAGAG
 CACCGAAAGGCTCCAGAAGATCCGTCTCTGCTTCCATGAGGGTGACGTGAAGGAGAAGAAGGAGAAGGA
 GATGAGGAGGAAATTCTGCAAGTTAAGCTGACTCCGCTTGTGTTGAAGCCGTTCCGAAACAGCGTCAGC
 GTGTACAACGGGGAGCCGAACACATGGAGAAGAAGCTACGCCGTATAAAGACAAGCAGGAAAGAAATCA
 TTTTGTAACAGAAGACAGATATATAGTTACACAGTACAGCCTTCGTCCCAGGAGAGAAGAGGTCAAAGC
 CAAAGAAATAGAGTCTGAGGAACAAAACCTTGTACCAAAGGACCCGACCTTTGGGAACCTTTCAAGTG
 ACCACTCCACAGAGGAAGGACTTGGAGTTTGGAGGAGTACCTGGTGC GGTCCTCATCATGCTGGGCCTGC
 CCGCTGCGTCTCTTGCTGCTGCTGCAGTGCAGGCAGAAGGACCCGGGGCTGCTCCACTTCCCTCCACC
 TCTGCCGGCTCTCCACGAGCTGTGGAAACCCAGGGTGTGCGGGCTTTACCTCCTCTGGTTTTCTGTTCAA
 GCTCTCTCCACCTTCTACCAGTTGGGAAGGTTGCAGAAGGAACACCTCTTGTGATGGAAGAAGACTCC
 AGTATAGACTGAATGGATTGTATGCCTTCACTTCTGACATCTGCAGCCCTGGGAGCAGCTGTCTTCTGGG
 TGTTGAGCTGTGCTACCTGTACACTCACTTCTGCAGTTGGCACTGGCAGCCACCGGGTCTCCGTGCTC
 CTGAGTGCTTACCTCTATGTTGCTCTCTGCGAGCCCGAGGGAGGAGCTGTGCCAGCCAGTCCGGAA
 ATGCTGTCTACGACTTCTCATTGGCCGAGAGTTAAACCCGCGACTTGGTCTTTTCGATCTCAAGTTCTT
 TTGTGAGTTGCGCCTGGATTGATTGGATGGGTGGTTATTAACCTTAGTGATGCTTCTGATGGAAATGAAA
 ATTCAGGAGCGAGCTGCTCCGCTCTGGCAATGATCTTGGTTAACAGTTTCCAGCTTATATGTGGTGG
 ACGCCCTCTGGAATGAGGAAGCACTGCTGACCTCCATGGACATCATGCACGACGGCTTTGGCTTCATGCT
 GGCCTTTGGGATTTAGTGTGGTTCCATTTACCTACAGCCTCCAGGCCTTTTACCTGGTCAGCCATCCC
 CATGACTTGTCTGGCCATTGGCTTCTGTATCATTGCTCTGAAATTGTGTGGATATGTAATCTTCCGTT
 GTGCAAATCTCAGAAAATGCATTCGGGAAGAATCCCACTGATCCAAAGCTTGCACATTTGAAGACCAT
 TCATACTCCACGGGGAAAAGTCTGCTTGTTCGGATGGTGGGCTTTGTTCCGCATCCCAATTACTTG
 GGTGACCTCATATGGCTCTGGCGTGGTCCCTCCCATGTGGTTTCAACCCTCTGCCATACTTCTACA
 TTATCTACTTACCGCCTTGCTTATCCATCGAGAGGCCCGGGATGAACACCAAGTGCAGGAGGAAGTACGG
 CCTGGCCTGGGAGAAGTACTGCCAGCGAGTGCCTACCGCATATCCCTACATTTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_133815

Insert Size: 1881 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_133815.2](#), [NP_598576.2](#)

RefSeq Size: 3568 bp

RefSeq ORF: 1881 bp

Locus ID: 98386

UniProt ID: [Q3U9G9](#)

Cytogenetics: 1 84.89 cM

Gene Summary: Catalyzes the reduction of the C14-unsaturated bond of lanosterol, as part of the metabolic pathway leading to cholesterol biosynthesis (PubMed:18785926). Plays a critical role in myeloid cell cholesterol biosynthesis which is essential to both myeloid cell growth and functional maturation (PubMed:22140257). Mediates the activation of NADPH oxidases, perhaps by maintaining critical levels of cholesterol required for membrane lipid raft formation during neutrophil differentiation (PubMed:22140257). Anchors the lamina and the heterochromatin to the inner nuclear membrane (By similarity).[UniProtKB/Swiss-Prot Function]