

Product datasheet for **MC217703**

Leprel2 (BC003726) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leprel2 (BC003726) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Leprel2
Synonyms:	BC016431; Grcb; Leprel2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003726
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGAAGACATGGCTAAGTACAGAAGGATGTCTGCAATCCGACCCAGAGCTCCGGGACCTGGTGA
 CGCCCCTATACTGGGCAGCTTATGACACTGGCCTGGAGCTTCTGGAGCAACGGGAGGCAGCACTGGCTCT
 ACCCCAAC TAGAGGAGGCCCTGCAGGGAGCCTGGCCACATGGAGAGCTGCCGTGCTGCCTGTGAGGGG
 CCTGAGGAGCACCAAGGGGCTGAAGAAGAGGGAGAAGGGAGCCAGGGAGGCCTGTATGAAGCCATTGCAG
 GACTGGATACGGGTTCTGCAGTGCAGGCAGCACTGTGTGGCAGACACGGCCACCCGCTCCTGGTCGAG
 CTTCCCTGTCCAGGACTTCTCCTCAGCCAGCTGAGACGGCTGCACGAGGCGTATGCTCAGTGGGGAAC
 ATGTCTCAGGCCATGGAAATGTCTGAGTGTCTGCTCTTCTACCCAGAGGATGAGGCTGCCAAAAGG
 CTCTGAACCAAGTACCAAACCTCAGTTGGGAGAGCCAAGACCTGACCTGGGACCACGAGAGGACATCCAGCG
 GTTCATCCTTCGCTCCCTCGGAGAGAAGAGACAGTTATATTACGCCATGGAGCATCTGGGCACTAGCTTC
 AAGGACCCGGATTCTTGGACCCCGAGGCTCTCATCCCTAAGGCACTGAGAGAGAGGCTCAGAGAGGATC
 AAGAGAAGAAGCCCTGGGACCATCAGCCTCCACAGCAGAAGCCCTTGGCTCACTGGAAGGATGCCCTTCT
 GATGGAGGGTGTGACCCTCACGCAGGACGCCCAGCAGCTGAATGGGTCCGAGCGAGCTGTCTTAGATGGG
 CTGCTAACTTCAGCCGAGTGTGGGGTCTGCTGCAGCTGGCCAAGGATGCAGCACAGGCTGGAGCCAGGT
 CAGGCTACCGTGGCCGCCGCTCTCCTCATAGTCTCATGAACGCTTTGAGGGGCTCACGGTGTCAAGGC
 TGCTCAGCTGGCCGGCAGGGACTGTGGGCAGGCCAGGCCTAAGCTGCTTCTGGAGGTAAGTGAAGCGA
 GTGCGGACTTTGACCCAGGCCTACTTCTCCCGGAACGGCCACTGCATCTTTCCTCACCCACCTGGTGT
 GCCGAAGTGCCATAGAAGGTGAACAAGAGCAGCGTATGGACCTGAGTCACCCGGTTCATGCAGACAAGT
 TGTCTGGACCCCGACACTGGCGAATGCTGGCGGAGCCCCAGCCTACACCTATCGAGACTATAGTGGA
 CTCTCTACCTCAATGATGACTTCAAGGGAGGCGACCTGTTCTTACGCAGCCCAACGCCCTCACTGTCA
 CGGCTCAGGTCCGTCCTCGGTGTGGGCGCCTTGTGGCCTTCACTCTGGTGGTGAAGAATCCCATGGTGT
 ATGGGCTGTGACTCGGGACGGCCTGTGCCCTAGCACTGTGGCACACGTGGGCACCTGAGCACAGTGAA
 CAGGAGTGGACAGAAGCCAAAGAGCTGCTGCAGGAGGAAGAGGAGGAAGAAGAGGAGGAAGACATTCTCA
 GCAGAGACCTTCCCAAGAACCCCAAGTACAAGCTTCAAGGAGTCCAGGAGAAAGCTGGGAAGCCCCG
 CCGGGTCCGGTCCGAGAGGAAGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC003726

Insert Size: 1638 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: [BC003726](#), [AAH03726](#)

RefSeq Size: 2289 bp

RefSeq ORF: 1637 bp

Locus ID: 14789

Cytogenetics: 6 59.17 cM

Gene Summary: Part of a complex composed of PLOD1, P3H3 and P3H4 that catalyzes hydroxylation of lysine residues in collagen alpha chains and is required for normal assembly and cross-linking of collagen fibrils (PubMed:27119146). Required for normal hydroxylation of lysine residues in type I collagen chains in skin, bone, tendon, aorta and cornea (PubMed:28115524). Required for normal skin stability via its role in hydroxylation of lysine residues in collagen alpha chains and in collagen fibril assembly (PubMed:27119146, PubMed:28115524). Apparently not required for normal prolyl 3-hydroxylation on collagen chains, possibly because it functions redundantly with other prolyl 3-hydroxylases (PubMed:28115524).[UniProtKB/Swiss-Prot Function]