

Product datasheet for **MC215830**

P3h4 (NM_176830) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P3h4 (NM_176830) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	P3h4
Synonyms:	1110036O03Rik; AI413214; Leprel4; Sc65
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215830 representing NM_176830
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCGCGGGCGTGGGGCTGCTGTGGCTGCTGCTGGGCAGCGCCGGGGCCAGTACGAGAAATACA
GCTTCCGAGGATTCCCTCCGAGGACCTGATGCCACTGGCCACGGCCTACGGCCACGCTCTGGAGCAATA
CGAAGGCGAAAGCTGGCGGAGAGCGCGCTACCTGGAGGCGCGCTGCGGCTGCACCGCTGCTGCGC
GACAGCGAGGCCCTTCTGCCACGCCAACTGTAGTGGCCCCGCCACCTCTCAGCCTCGGCCCGCTCCGGCC
CGGACGGCGACCACGACGGCGATGGCGAGGACTGGGCTCGCGAGCTGCGGCTCTTCGGTACGTCCTGGA
GCGCGCCGCTGCCTGCGGCGTCAAGAAGACGCTGCCCGCTTTCAAGTCCCTTACCCACCGCGGCAG
CTGCTGCGGACTCCAGAGCCGCTGCCCTATCAGTACCTGCACTACGCGCACTTCAAGGCGAACCGAC
TGGAGAAGGCGGTGGCTGCGGCCTACACCTTCTCCAGAGGAACCCCAAGCACGAGCTGACCGCAAAGTA
TCTCAACTACTACAGGGGATGCTGGATATTGGAGATGAGTCCCTCACCGACCTGGAGGCCAGCCCTAC
GAGGCTGTGTTCCCTCCGGCTGTGAAACTTTACAACAGCGGGGACTTTCGAGCAGCACAGAAGACATGG
AGCGGGCCCTGGCTGAATATATGACGGTCTTGTCTCGGTGCTAGCTGGCTGTGAGGGGGCCACGAGCA
GGTAGACTTCAAGGACTTCTACCCAGCGATAGCAGATCTTTCGAGAATCCCTGCAGTGCAAGGTGGAC
TGTGAGACCAATCTACCCCAACGTAGGTGGCTTCTTTGTGGACAAGTTTGTGGCCACCATGTACTACT
ACCTGCAGTTTGCTACTACAACTGAATGATGTACGCCAGGCTGCCCGCAGTGTGCTAGCTACATGCT
CTTTGACCCCAAGGACAGCGTTATGCAGCAGAACCTGGTATATTACCGCTTCCACCGGGCTCGTGGGGC
CTTGAAGACGAGGACTTCAACCCCGGGAGGAAGCTATGCTCTACCACAACCAGACCTCTGAGCTCCGGG
AGTTGCTAGACTTCACACACATGTACCTTCAGTCAGACGATGAGATGGAAGTGGAGGAGACAGAATCACT
CCAGAGCCTGAAGAACCTCTATCTGATGCTGAGTTCGAAGGCGAGGGCGACTATGAGGAAGGTCTCTAT
GCTGACTGGTGGCAAGAGCCAGAAGCAAGGGTACGAGGCCGAGGCCGAGCCAGAGCCTGAACTGACAT
AA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_176830

Insert Size: 1332 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_176830.2](#), [NP_789800.1](#)

RefSeq Size: 1903 bp

RefSeq ORF: 1332 bp

Locus ID: 66180

UniProt ID: [Q8K2B0](#)

Cytogenetics: 11 D

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 bone density and normal skin stability via its role in hydroxylation of lysine residues in collagen alpha chains and in collagen fibril assembly (PubMed:23959653, PubMed:27119146, PubMed:28115524).[UniProtKB/Swiss-Prot Function]