

Product datasheet for **MC221153**

P3h3 (NM_013534) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P3h3 (NM_013534) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	P3h3
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: >MC221153 representing NM_013534
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCGGCTCTCGGTTGTTGCTTTTGTCTGCTGCTGCCCTCCCCGGGGTCCCCGAGCCTCCGAGC
 CCCCGGGCTGGCTCAGTTGTACCGGGGTCGCCTCCCCAGGCCCCGACTTGCTCTACGCGGACGGGCT
 GCGAGCCTACTCGGCCGGGGCTTGGGCGCCCGCAGTGGCGCTGCTGCGAGAGGCGCTGCGGAGCCGGCG
 GCGCTGGGCCGCGCGCCAGGAGTGGGGGCGAGCTGCGCGGCCGAGCCGGGCGCCGCGCTCCCCTCCC
 AGCTCCTCGGAGCCCACATCCTGTCTCCGGGCCGGGGTCTGGGAACCGCTGCTCTGCGGCCACGCT
 CCGCCGCGCCGAGTGCCTGACCCAGTGC GCGGTGCGGAGGCTGGGCCGGGGGCGCGCCGCGCTCCGC
 GTGGGAGCGCGCTGCGGGATGCCTTCCGCCGGCGGGAGCCTTAACTACCTGCAGAGGGCCTACTACC
 AGTTGAAGAAGCTGGACCTGGCAGCTTCTGAGCACACACCTTTTGTGGCAAACCAACACACCTGCA
 GATGCGGGAAGACATGGTAAGTACAGAAGGATGTCTGCAATCCGACCCAGAGCTTCCGGGACCTGGTG
 ACGCCCTATACTGGGCAGCTTATGACACTGGCCTGGAGCTTCTGGAGCAACGGGAGGCAGCACTGGCTC
 TACCCCAACTAGAGGAGGCCCTGCAGGGGAGCCTGGCCACATGGAGAGCTGCCGTGCTGCCTGTGAGGG
 GCCTGAGGAGACCAAGGGGCTGAAGAAGAGGGAGAAGGGAGCCAGGGAGGCCTGTATGAAGCCATTGCA
 GGACACTGGATACGGGTTCTGCAGTGCAGGCAGCACTGTGTGGCAGACACGGCCACCCGTCCTGGTCGCA
 GCTTCCCTGTCCAGGACTTCTCCTCAGCCAGCTGAGACGGCTGCACGAGGCGTATGCTCAGGTGGGAA
 CATGTCTCAGGCCATGAAAAATGCTGTAGTGTCTGCTTTCTACCCAGAGGATGAGGCTGCCAAAAAG
 GCTCTGAACCAGTACAAACTCAGTTGGGAGAGCAAGACCTGACCTGGGACCAGAGAGGACATCCAGC
 GGTTTCATCCTTCGCTCCCTCGGAGAGAAGAGACAGTTATATTACGCCATGGAGCATCTGGGCACTAGCTT
 CAAGGACCCGGATTCTTGGACCCCGAGGCTCTCATCCCTAAGGCACTGAGAGAGAGGCTCAGAGAGGAT
 CAAGAGAAGAAGCCCTGGGACCATCAGCCTCCACAGCAGAAGCCCTTGGCTCACTGGAAGGATGCCCTTC
 TGATGGAGGGTGTGACCCTCACGACGAGCAGCCAGCAGCTGAATGGGTCGGAGCGAGCTGTCTTAGATGG
 GCTGCTAACTTACGCCGAGTGTGGGTTCTGCTGCAGCTGGCCAAGGATGCAGCACAGGCTGGAGCCAGG
 TCAGGCTACCGTGGCCGCGCTCCTCATAGTCTCATGAACGCTTTGAGGGGCTCACGGTGTCAAGG
 CTGCTCAGCTGGCCCGGCGAGGACTGTGGCAGGCCAGGCGCTAAGCTGCTTCTGGAGGTAAGTGAGCG
 AGTGGGACTTTGACCCAGGCCACTTCTCCCCGGAACGGCCACTGCATCTTTCCTTACCCACCTGGTG
 TGCCGAAGTGCCATAGAAGGTGAACAAGAGCAGCGTATGGACCTGAGTCAACCGGTTTCATGCAGACAACT
 GTGTCCTGGACCCGACACTGGCGAATGCTGGCGGGAGCCCCAGCCTACACCTATCGAGACTATAGTGG
 ACTCCTTACCTCAATGATGACTTCAAGGGAGGCGACCTGTTCTTACGACAGCCCAACGCCCTCACTGTC
 ACGGCTCAGGTCCGTCCTCGGTGTGGGCGCCTGTGGCCTTACGCTCTGGTGGTGAAGTCCCCATGGTG
 TATGGGCTGTGACTCGGGGACGGCGCTGTGCCCTAGCACTGTGGCACACGTGGGCACCTGAGCACAGTGA
 ACAGGAGTGGACAGAAGCCAAAGAGCTGCTGCAGGAGGAAGAGGAGGAAGAAGAGGAGGAAGACATTCTC
 AGCAGAGACCCCTCCCCAGAACCCCAAGTACAAGCTTACGCGAGTCCAGGAGAAGCTGGGAAGCCCC
 GCCGGTCCGGGTCAGAGGAACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_013534
Insert Size: 2199 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:	<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:	<u>NM_013534.4</u> , <u>NP_038562.2</u>
RefSeq Size:	2779 bp
RefSeq ORF:	2199 bp
Locus ID:	14789
UniProt ID:	<u>Q8CG70</u>
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]