

Product datasheet for **MC220615**

P3h2 (NM_173379) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P3h2 (NM_173379) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	P3h2
Synonyms:	4832416N06; AW553532; Leprel1; Mlat4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220615 representing NM_173379
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGAGAGCACGTGGGTGTCGCTGCTGTTGCTGCTACTGCTGCCACACCGCAGCGGGCGGCCCCC
 AGGACGGTCGCCGGTCCCGGAGCCAGAGCCGAGCGCGGCCCGCTGCAGCCCTTCGACCTGCTCTACGC
 CAGCGGGCTGGCTGCCTACTACAGCGGCCACTATGAGCGAGCGGTGCGGGACCTGGAAGCCGCCCTGAGC
 AGTCACCGGCGCTACGGGACATCCGCACGCGCTGCGCCCGCCACTGCGCGGCGCGCCGTCGCTCGCGC
 CCCCCGGCGCCGCCCGGAGCCGAGCTGCCCTTCTTCGCGCGGTGCTGGAGCGGGCGCGCTGCTCCCG
 CAGCTGCCAGAGCCAGCGCTGGCGGCCCGCGTCCCGCCACCGCGTCAGCGAGGACGTGCGCAGCGAC
 TTCCAACGCAGAGTTCCTACAACCTACCTGCAGAGGGCTACATCAAGCTCAACCAGCTGAAAAAGGCCA
 TGAAGCAGCTCACACGTTCTTCATGGCAACCCCGAGCAGATGAAAATGCAGCAGGACCTAGAGGACTA
 TAAAGCCACAGCAGGAGTGAAGCCCCCTGCTAGACCGGAAGCAAGCCACACCTGAAAAGCTATAAT
 GCTGGAGTCAAACATTATGAAGCTGATGACTTTGAATCCGCAATCAAGTACTTTGAACAAGCTTTAAGAG
 AGTATTTCAATGAAGACATGGAGTGCCGTGCTCTATGTGAGGGGCTCAGAGATTTGAGGAATATGAGTA
 CTTAGGGTATAAAGGTGGTCTTTACGAGGCAATCGCAGATCACTATATGCAGGTTCTGGTCTGTCAGCAT
 GAATGTGTGAGGGAACCGCCACCCCGCCAGGCCCTCTACCAATCGAGAACCTTTCTCCCTTGCAAT
 ACGACTACCTCCAGTTTGCTACTACAGAGTTGGTGAATATGTGAAAGCCTTGGAGTGCGCCAAAGCCTA
 CCTGATGTTCCATCCAGACAATGAGGATGTCCTGGACAATGTAGACTTCTATGAGAGTCTGCTGGATGAC
 AGCACTGATCCAGCATCCATTGAGGCCCGGAGGATTTAACAGCATTGTCAAACGTCAAACTTGAAG
 CTGAAGTATCAAGTTAGCTGCAGAGGGCTGGGATTTTCATATGCTGAACCGAATTACTGGATGACCTA
 TGGAGGACGGCAGGATGAGAACCGAGTCCCTTCAGGAGTGAATATGGATGGGGCAGAAGTTCATGGATTG
 TCAATGGGAAAGAAGTACCGCCCAAGATAGGTCGAGACCTAAGAGAAGGTGGCCCTCTGCTCTACGAGA
 ACATCACCTTCGCTACAACCTCTGAGCAGCTGAACGGGACTCAACGGGTTCTTCTCGATAATGTCCTGTC
 GCAAGAGCAGTGTGGGAGCTGCACAGTGTGGCCAATGGAATCATGCTGGTTGGTGTGATGATACCGAGGG
 AAAACGTACCCACACACCCAATGAGAAGTTGAAGGAGCAACTGTTTTAAAAGCACTCAAATTTGGTT
 ATGAAGGCCGGGTGCCACTGAAGAGTGAAGACTGTTCTATGACATCAGCGAGAAGGCTCGGAAGATTGT
 GGAATCCTATTTTCATGCTGAACCAACCCTGTATTTTCTATACACACATGGTCTGCAGAACAGCCCTG
 TCTGGGCAGCAGGATCGAAGAAATGACCTCAGTACCCCATTCATGCAGACAACCTGCTGCTGGATCCAG
 AAGCCAATGAATGCTGGAAGGAGCTCCCGCTTACACCTTCGGGACTACAGTGTCTCCTGTATATGAA
 TGACGACTTTGACGGAGGGGAATTCATCTTACAGAAATGGATGCTAAAACCGTGACTGCCTCTATAAAA
 CCAAAGTGTGGCCGAATGATCAGCTTCTCGTCTGGCGGCGAGAACCCTCATGGCGTGAAGGCGGTACCA
 GAGGCCAGCGCTGTGCTGTGGCACTATGGTTTACACTGGACCCTTTACCGAGAAGTGGAGCGGATACA
 GGCAGATGAAGTGAATGCCATCTTGATCAAGAACAGCGCGGGAAGCATGGACTGAATATTAACCCAAA
 GATGAGCTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173379

Insert Size: 2112 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:	NM_173379.2 , NP_775555.1
RefSeq Size:	2248 bp
RefSeq ORF:	2112 bp
Locus ID:	210530
UniProt ID:	Q8CG71
Cytogenetics:	16 B1
Gene Summary:	Prolyl 3-hydroxylase that catalyzes the post-translational formation of 3-hydroxyproline on collagens (PubMed:24368846, PubMed:25645914). Contributes to proline 3-hydroxylation of collagen COL4A1 and COL1A1 in tendons, the eye sclera and in the eye lens capsule (PubMed:25645914). Has high activity with the type IV collagen COL4A1, and lower activity with COL1A1. Catalyzes hydroxylation of the first Pro in Gly-Pro-Hyp sequences where Hyp is 4-hydroxyproline. Has no activity on substrates that have proline instead of 4-hydroxyproline in the third position (By similarity).[UniProtKB/Swiss-Prot Function]