

Product datasheet for **RN214000**

P3h2 (NM_001025627) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P3h2 (NM_001025627) Rat Untagged Clone
Tag:	Tag Free
Symbol:	P3h2
Synonyms:	Leprel1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN214000 representing NM_001025627
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGGAGAGCACGTGGGTGTCGCTGCTGTTGCTGCTGCTGCTGCCCGCCACAGCGGGCGGCCCCC
 AGGACGGTCGCGGGTCGCCGGAGCCGGAGCCAGAGCGCGGCCCGCTGCAGCCCTTCGACCTGCTCTACGC
 TAGCGGGCTGGCTGCCTACTACAGCGGCCACTACGAAGGTGCGGTGCGGGACCTAGAAGCCGCGCTGCGC
 AGCCACCGGCGCCTGCGAGACATCCGCACGCGCTGCGCCCGCCACTGCGCCGCGCGCCCGCCGCTCGCGC
 CCCCAGGCGCGGCCCGGGAGCCGAGCTGCCCTTCTTCGCGCGGTGCTCGAACGAGCGCGCTGCTCCC
 CAGCTGCCAGAGCCAGCGTCTGGGCGGCCCGCGTCCCGCCACCGTGTGACGGAAGAGCTGCGCAGCGAC
 TTCAGCGCAGAGTGCCTACAACACTACGAGGGCCACATCAAGCTCAACCAGCTCGATAAAGCCA
 TGAAGCAGCTCACACATTCTTCATGGCCAACCCGAGCAGATGAAAATGCAGCAGAACATAGAAGACTA
 TAAAGCCACAGCAAGAGTGAAGCCCGTTAGTAGACAGAGAAGCAAGCCACACCTGGAAGCTATAAT
 GCTGGAGTTAAACATTATGAGGCGGATGACTTTGAAGCAGCCATCAAGTACTTTGAACAAGCTTTAAGAG
 AATATTTCAATGAAGATATGGTGTGCCGCGCTCTGTGTGAGGGGCTCAGAGATTTGAGGAATATGAGTA
 TTTAGGATCTAAGGGCAGTCTTTATGAGGCAATCGCAGATCACTACATGCAGGTTCTGGTCTGTCAGCAT
 GAGTGTGTGAGGGAACCTGCCACCCGCCAGGCCCGCTCTACCAATCGAGAACCTTTCTCCCTTGCAAT
 ATGACTACCTCCAGTTTGCTACTACAGAGTTGGTGAGTATGTGAAAGCCTTGAGTGTGCCAAAGCCTA
 CCTGATGTTCCACCCAGACGACCAGGATGTCCTGGACAATGTAGACTTCTATGAGAGTCTGCTGGATGAC
 AGCACTGACCCAGCATCCATTGAGGCCGAGAGGATTTAACAGCATTGTCAAACGTCAAACTTGAAG
 CTGAAGTATCAAGTCAAGTCAAGAGGGCTGGGATTTTCAATTTCTGAACCAAATTAAGTGCATGATTA
 TGGAGGACGGCAGGATGAGAACCAGTCCCTTCGGGAGTGAATATGGATGGGGCAGAAGTTCACGGATTG
 TCCATGGGGAAGAAGTACCACCCAAGATAGTTCGAGATCTTAGAGAAGGTGGCCCTCTGCTCTATGAGA
 ACATCACCTTCGCTACAACCTCCGAGCAGCTGAACGGGACTCAGCGGGTCTCCTAGATAACGCTCTGTC
 GGAAGAACAGTGCCGGGAGCTGCACAGTGTGCCAGTGAATCATGCTGGTTGGTATGATACCGAGGG
 AAAACGTCACCCACACACCCAATGAGAAGTTGAAGGAGCAACTGTTTTGAAAGCACTCAAATTTGGTT
 ATGAAGGCCGGGTGCCACTGAAGAGTGCACGGCTGTTCTATGACATCAGCGAGAAGGCTCGGAAGATTGT
 GGAGTCTATTTTCATGCTGAACCTCAACCCTGTATTTTCTATACACACATGGTCTGCAGAACAGCCCTG
 TCTGGGACGAGGATCGAAGAAATGACCTCAGTACCCCATTCATGCGGACAACCTGCTTGTGATCCAG
 AAGCCAACGAATGCTGGAAGGAGCTCCTGCTTACACCTTCGGGACTATAGTGCTCTCCTGTATATGAA
 TGACGACTTTGAAGGAGGAGAATTCATCTTACGGAAATGGATGCTAAAACCTGTGACTGCCTCTATAAAG
 CCAAAATGTGGGCGAATGATCAGCTTCTCATCTGGTGGCGAGAACCCTCACGGGGTGAAGGCAGTACCA
 GAGGCCAGCGCTGTGCTGTGGCACTGTGGTTACCCTAGACCCTCTACCGAGAATTGGAGCGGATACA
 GGCTGATGAAGTATTGCCATCTTGATCAAGAACAACACGGGAAGCATGGACTGAATATTAACCCCAA
 GACGAGCTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001025627
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:	<u>NM_001025627.1</u> , <u>NP_001020798.1</u>
RefSeq Size:	2387 bp
RefSeq ORF:	2112 bp
Locus ID:	288016
UniProt ID:	<u>Q4KLM6</u>
Cytogenetics:	11q22
Gene Summary:	Prolyl 3-hydroxylase that catalyzes the post-translational formation of 3-hydroxyproline on collagens (PubMed:21757687). Contributes to proline 3-hydroxylation of collagen COL4A1 and COL1A1 in tendons, the eye sclera and in the eye lens capsule (By similarity). 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 lack 4-hydroxyproline in the third position (By similarity).[UniProtKB/Swiss-Prot Function]