

Product datasheet for **SC321909**

P4HA2 (NM_001017973) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4HA2 (NM_001017973) Human Untagged Clone
Tag:	Tag Free
Symbol:	P4HA2
Synonyms:	MYP25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001017973.1
 GCCGCGGGAGGTTCTGGAACCGCCGGGAGCTGCGAGTGTCCAGACACTTCCCTCTGTGAC
 CATGAAACTCTGGGTGTCTGCATTGCTGATGGCCTGGTTTGGTGTCTGAGCTGTGTGCA
 GGCCGAATTTTACCTCTATTGGGCACATGACTGACCTGATTTATGCAGAGAAAAGACT
 GGTGCAGTCTCTGAAAGAGTACATCCTTGTGGAGGAAGCCAAGCTTTCCAAGATTAAGAG
 CTGGGCCAACAAAATGGAAGCCTTGACTAGCAAGTCAGCTGCTGATGCTGAGGGCTACCT
 GGCTCACCTGTGAATGCCTACAACTGGTGAAGCGGCTAAACACAGACTGGCCTGCGCT
 GGAGGACCTTGTCTGCAGGACTCAGCTGCAGGTTTTATCGCCAACCTCTCTGTGCAGCG
 GCAGTTCTTCCCCACTGATGAGGACGAGATAGGAGCTGCCAAAGCCCTGATGAGACTTCA
 GGACACATACAGGCTGGACCCAGGCACAATTTCCAGAGGGGAACTTCCAGGAACCAAGTA
 CCAGGCAATGCTGAGTGTGGATGACTGCTTTGGGATGGGCCGCTCGGCCTACAATGAAGG
 GGACTATTATCATACGGTGTGTGGATGGAGCAGGTGCTAAAGCAGCTTGATGCCGGGA
 GGAGGCCACCACAACCAAGTCACAGGTGCTGGACTACCTCAGCTATGCTGTCTTCCAGTT
 GGGTGATCTGCACCGTGCCTGGAGCTCACCCGCCGCTGCTCTCCCTTGACCAAGCCA
 CGAACGAGCTGGAGGGAATCTGCGGTACTTTGAGCAGTTATTGGAGGAAGAGAGAGAAAA
 AACGTTAACAAAATCAGACAGAAGCTGAGCTAGCAACCCCAAGAGCATCTATGAGAGGCC
 TGTGGACTACCTGCCTGAGAGGGATGTTTACGAGAGCCTCTGTCTGGGGAGGGTGTCAA
 ACTGACACCCCGTAGACAGAAGAGGCTTTTCTGTAGGTACCACCATGGCAACAGGGCCCC
 ACAGCTGCTCATTGCCCCCTTCAAAGAGGAGGACGAGTGGGACAGCCCGCACATCGTCAG
 GTACTACGATGTCATGCTGATGAGGAAATCGAGAGGATCAAGGAGATCGCAAAACCTAA
 ACTTGCACGAGCCACCGTTCGTGATCCCAAGACAGGAGTCTCACTGTGCGCCAGTACCG
 GGTTTCCAAAAGCTCCTGGCTAGAGGAAGATGATGACCCTGTTGTGGCCCGAGTAAATCG
 TCGGATGCAGCATATCACAGGGTTAACAGTAAAGACTGCAGAATTGTTACAGTTGCAAA
 TTATGGAGTGGGAGGACAGTATGAACCGCACTTCTAGGCGACCTTTTGACAG
 CGGCCTCAAAACAGAGGGGAATAGGTTAGCGACGTTTCTTAACTACATGAGTGTGTAGA
 AGCTGGTGGTGCCACCGTCTTCCCTGATCTGGGGCTGCAATTTGGCCTAAGAAGGGTAC
 AGCTGTGTTCTGGTACAACCTCTTGCAGGCGGGGAAGGTGACTACCGAACCAAGACATGC
 TGCCTGCCCTGTGCTTGTGGCTGCAAGTGGGTCTCCAATAAGTGGTTCATGAACGAGG
 ACAGGAGTTCTTGAGACCTTGTGGATCAACAGAAGTTGACTGACATCCTTTTCTGCTCT
 CCCCTTCTGGTCTTCCAGCCATGTCAACGTGACAGACACCTTTGTATGTTCTTTGTA
 TGTTCTATCAGGCTGATTTTTGGAGAAATGAATGTTTGTCTGGAGCAGAGGGAGACCAT
 ACTAGGGCGACTCTGTGTGACTGAAAGTCCCAGCCCTTCCATTACGCCTGTGCCATCCCT
 GGCCCAAGGCTAGGATCAAAGTGGCTGCAGCAGAGTTAGCTGTCTAGGCCTAGCAAGG
 TGCCCTTTGTACCTCAGGTGTTTTAGGTGTGAGATGTTTCAAGTGAACCAAGTTCTGATAC
 CTTGTTTACATGTTTGTGTTTATGGCATTCTATCTATTGTGGCTTTACCAAAAAATAAA
 ATGTCCCTACCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001017973

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001017973.1, NP_001017973.1</u>
RefSeq Size:	2582 bp
RefSeq ORF:	1602 bp
Locus ID:	8974
UniProt ID:	<u>O15460</u>
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
Gene Summary:	<p>This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2), also known as IIa, contains an alternate in-frame exon, compared to variant 1. Variants 2-4 and 7-9 all encode isoform 2, which is shorter than isoform 1.</p>