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Product datasheet for SC302089

P4HA1 (NM_001017962) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4HA1 (NM_001017962) Human Untagged Clone
Tag:	Tag Free
Symbol:	P4HA1
Synonyms:	P4HA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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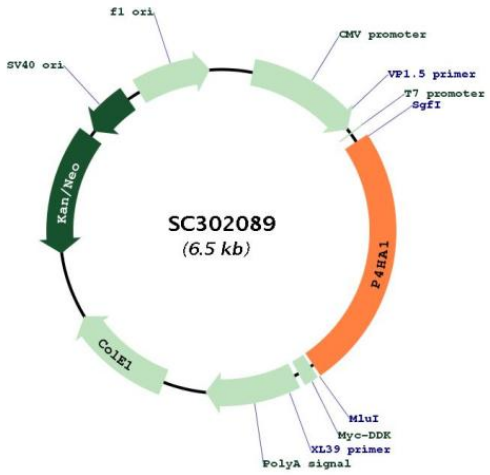
Fully Sequenced ORF:

>SC302089 representing NM_001017962.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCTGGTATATATTAATTATAGGAATTCTGCTTCCCCAGTCTTTGGCTCATCCAGGCTTTTTTACT
TCAATTGGTCAGATGACTGATTTGATCCATACTGAGAAAGATCTGGTGACTTCTCTGAAAGATTATATT
AAGGCAGAAGAGGACAAGTTAGAACAAATAAAAAAATGGGCAGAGAAGTTAGATCGGCTAACTAGTACA
GCGACAAAAGATCCAGAAGGATTTGTTGGGCATCCAGTAAATGCATTCAAATTAATGAAACGTCTGAAT
ACTGAGTGGAGTGAGTTGGAGAATCTGGTCCTTAAGGATATGTCAGATGGCTTTATCTCTAACCTAACC
ATTCAGAGACAGTACTTTCCTAATGATGAAGATCAGGTTGGGGCAGCCAAAGCTCTGTTACGTCTCCAG
GATACCTACAATTTGGATACAGATACCATCTCAAAGGGTAATCTTCCAGGAGTGAAACACAAATCTTTT
CTAACGGCTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTATTACCATACGGAA
CTGTGGATGGAACAAGCCCTAAGGCAACTGGATGAAGGCGAGATTTCTACCATAGATAAAGTCTCTGTT
CTAGATTATTTGAGCTATGCGGTATATCAGCAGGGAGACCTGGATAAGGCACTTTTGCTCACAAAGAAG
CTTCTTGAACTAGATCCTGAACATCAGAGAGCTAATGGTAACTTAAAATATTTTGAGTATATAATGGCT
AAAGAAAAAGATGTCAATAAGTCTGCTTCAGATGACCAATCTGATCAGAAAACTACACCAAAGAAAAAA
GGGGTTGCTGTGGATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAA
ATGACCCCTCGGAGACAGAAAAAACTCTTTTGCCGCTACCATGATGGAAACCGTAATCCTAAATTTATT
CTGGCTCCAGCTAAACAGGAGGATGAATGGGACAAGCCTCGTATTATTCGCTTCCATGATATTATTTCT
GATGCAGAAATTGAAATCGTCAAAGACCTAGCAAAACCAAGGCTGAGGCGAGCCACCATTTCAAACCCA
ATAACAGGAGACTTGGAGACGGTACATTACAGAATTAGCAAAAGTGCCTGGCTCTCTGGCTATGAAAAT
CCTGTGGTGTCTCGAATTAATATGAGAATACAAGATCTAACAGGACTAGATGTTTCCACAGCAGAGGAA
TTACAGGTAGCAAATTATGGAGTTGGAGGACAGTATGAACCCCATTTTGACTTTGCACGGAAAGATGAG
CCAGATGCTTTCAAAGAGCTGGGGACAGGAAATAGAATTGCTACATGGCTGTTTTATATGAGTGATGTG
TCTGCAGGAGGAGCCACTGTTTTTCCTGAAGTTGGAGCTAGTGTTTGGCCCAAAAAAGGAACTGCTGTT
TTCTGGTATAATCTGTTTGCCAGTGGAGAAGGAGATTATAGTACACGGCATGCAGCCTGTCCAGTGCTA
GTTGGCAACAAATGGGTATCCAATAAATGGCTCCATGAACGTGGACAAGAATTTCGAAGACCTTGTACG
TTGTCAGAATTGGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001017962
Insert Size:	1605 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).
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:	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_001017962.2
RefSeq Size:	2860 bp
RefSeq ORF:	1605 bp
Locus ID:	5033
UniProt ID:	P13674
Cytogenetics:	10q22.1
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
MW:	61 kDa
Gene Summary:	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] Transcript Variant: This variant (2) contains an alternate in-frame exon, compared to variant 1. It encodes isoform 2, which is the same length as isoform 1. Variants 2 and 3 both encode isoform 2.