

## Product datasheet for **SC336956**

### **P4HA3 (NM\_001288748) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P4HA3 (NM_001288748) Human Untagged Clone
Tag:	Tag Free
Symbol:	P4HA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



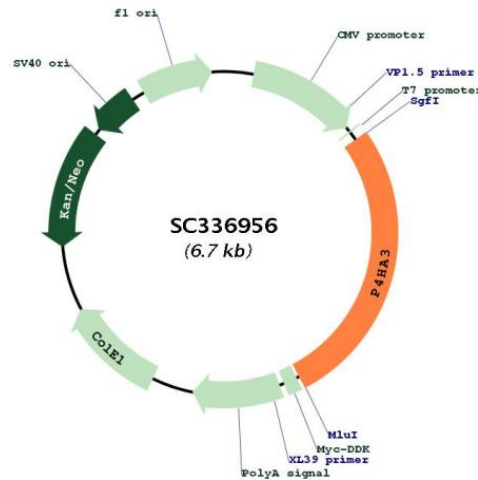
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**Fully Sequenced ORF:** >SC336956 representing NM\_001288748.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGTCTGGGGCGCGCTGGCGGCGCTGCTGGCGGTGCTGGCGCTCGGGACAGGAGACCCAGAAAAGG
GCTGCGGCTCGGGGCGACACGTTCTCGGCGCTGACCAGCGTGGCGCGCCCTGGCGCCGAGCGCCGG
CTGCTGGGGCTGCTGAGGCGGTACCTGCCGGGGAGGAGGCGCGCTGCCGGACCTGACTAGATTCTAC
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AGCGTGCCTGTGGTTAGGCACTGTTTTGGTGGAACCTGCACAGGAGTGGTGAAGGGGACAGTGACACAC
TTCATGCTGGCTGTCTGTCTGGTGGGAGATAAGTGGTGGCCAACAAGTGGATACATGAGTATGGAC
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CCTGTGGCTTTCCAGAGAAGCCAGGAGCCAAAAGCTGGGGTAGGAGAGGAGAAAGCAGAGCAGCCTCCT
GGAAGAAGGCCTTGTGAGCTTTGTCTGTGCTCGCAAATCAGAGGCAAGGAGAGGTTGTTACCAGGGG
ACACTGAGAATGTACATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI

Plasmid Map:



ACCN: NM\_001288748

Insert Size: 1815 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:

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\\_001288748.1](#)

RefSeq Size: 2292 bp

RefSeq ORF: 1815 bp

Locus ID: 283208

UniProt ID: [Q7Z4N8](#)

Cytogenetics: 11q13.4

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

**MW:** 67.6 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Transcript Variant: This variant (2) uses an alternate splice site in the central coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) has a longer and distinct C-terminus, compared to isoform 1.