

## Product datasheet for **RG239062**

### **P4HA3 (NM\_001288748) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P4HA3 (NM_001288748) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P4HA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239062 representing NM\_001288748.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGTCTGGGGCGCGCTGGCGGCTGTGGCGTGGCGCTCGGGACAGGAGACCCAGAAAGG
CTGCTGGGCTCGGGGACACGTTCTCGCGCTGACCCAGCGTGGCGCGCCCTGGCGCCGAGCGCCG
CTGCTGGGCTGCTGAGCGGTACTGCCGCGGGAGGAGCGCGCTGCCGGACCTGACTAGATTCTAC
GACAAGTACTTTCTTTCATGAGGATTCAACAACCCCTGTGGCTAACCTCTGTTGCATTACTCTC
ATCAAACGCTGCAGTCTGACTGGAGGAATGTGGTACATAGTCTGGAGGCCAGTGAACATCCGAGCT
CTGAAGGATGGCTATGAGAAGGTGGAGCAAGACCTCCAGCCTTTGAGGACCTTGAGGGAGCAGCAAG
GCCCTGATGCGGCTGCAGGACGTGTACATGCTCAATGTGAAAGGCTGGCCGAGGTGTCTTTCAGAGA
GTCAGTGGCTCTGCCATCACTGACCTGTACAGCCCAACGGCTCTTTTCTCACAGGGGATGACTGC
TTCCAAGTTGCCAAGGTGCCTATGACATGGGGGATTATTACCATGCCATCCATGGCTGGAGGAGCT
GTCAGTCTTCCGAGGATCTTACGGAGAGTGGAAAGACAGAGGATGAGGCAAGTCTAGAAGATGCCTTG
GATCACTTGGCCTTTGCTTATTTCCGGGACGAAATGTTTCGTGTGCCCTCAGCCTCTCTCGGGAGTTT
CTTCTCTACAGCCAGATAATAAGAGGATGGCCAGGAATGTCTTAAAATATGAAAGGCTCTTGGCAGAG
AGCCCCAACACGTGGTAGCTGAGGCTGTATCCAGAGGCCAATATACCCACCTGCAGACCAGAGAC
ACCTACGAGGGGCTATGTGAGACCTGGGTTCCAGCCACTCTCTACCAGATCCCTAGCCTCTACTGT
TCCTATGAGACCAATCCAACGCCTACCTGCTGCTCCAGCCATCCGGAAGGAGGTATCCACCTGGAG
CCCTACATTGCTCTACCATGACTTCGTGACTCAGAGGCTCAGAAAATTAGAGAATTGCAGAA
CCATGGCTACAGAGGTCAGTGGTGGCATCAGGGGAGAAGCAGTTACAAGTGGAGTACCGCATCAGCAA
AGTCTGGCTGAAGGACACTGTTGACCAAACTGGTGACCCTCAACCACCGCATGCTGCCCTCACA
GGCCTTGATGTCGGCCCTCCCTATGCAGAGTATCTGCAGGTGGTAACTATGGCATCGGAGGACATAT
GAGCCTCACTTTGACCATGCTACGTACCAAGCAGCCCTCTACAGAATGAAGTCAGGAAACCGAGTT
GCAACATTTATGATCTATCTGAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCTATGCCAACCTC
AGCGTGCCTGTGGTTAGGCACTGTTTTGGTGAACCTGCACAGGAGTGGTGAAGGGGACAGTGACACAC
TTCATGCTGGCTGCTGCTGCTGGTGGGAGATAAGTGGTGGCCAACAAGTGGATACATGAGTATGGAC
AGGAATCCGCAGACCCTGCAGCTCCAGCCCTGAAGACTGAACTGTTGGCAGAGAGAAGCTGGTGGAGT
CCTGTGGCTTCCAGAGAAGCCAGGAGCCAAAAGCTGGGGTAGGAGAGGAGAAAGCAGAGCAGCCTCCT
GGAAGAAGGCCTTGTGAGCTTTGTCTGTGCTCGCAAATCAGAGGCAAGGAGAGTTGTTACCAGGGG
ACACTGAGAATGTACATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG239062  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGPGRARLALLAVLALGTGDPERAAARGDTFSALTSVARALAPERLLGLLRRYLRGEEARLRDLTRFY
DKVLSLHEDSTTPVANPLLAFTLIKRLQSDWRNVVHSLEASENIRALKDYEKVEQDLPAFEDLEGAAR
ALMRLQDYYMLNVKGLARGVFQRTGSAITDLYSPKRLFSLTGDDCFQVGKVAYDMGDYYHAIPWLEEA
VSLFRGSYGEWKTEDEASLEDALDHLAFAYFRAGNVSCALSLSREFLLYSPDNKRMARNVLKYERLLAE
SPNHVVAEAVIQRPNIPHLQTRDYEGLCQTLGSQPTLYQIPSLYCSYETNSNAYLLLQPIRKEVIHLE
PYIALYHDFVSDSEAQKIRELAEPWLQRSVVASGEKQLQVEYRISKSAWLKDTVDPKLVTLNHRIAALT
GLDVRPPYAEYLQVYNYGIGGHYEPHFHDHATSPSSPLYRMKSGNRVATFMIYLSSEAGGATAFIYANL
SVPVVRHCFGGTCTGVVKGTVTHFMLAVLSWWEISGWPTSGYMSMDRNSADPAAPALKTELLAERSWWS
VPAFQRSQEPKAGVGEKAEQPPGRRPCQLCLCLANQRQGRGCYQGTLRMYI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001288748.2</a>
<b>RefSeq Size:</b>	2292 bp
<b>RefSeq ORF:</b>	1815 bp
<b>Locus ID:</b>	283208
<b>UniProt ID:</b>	<a href="#">Q7Z4N8</a>
<b>Cytogenetics:</b>	11q13.4
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Arginine and proline metabolism, Metabolic pathways
<b>MW:</b>	68 kDa
<b>Gene Summary:</b>	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]