

Product datasheet for **RC227800**

P4HA1 (NM_001142595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4HA1 (NM_001142595) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P4HA1
Synonyms:	P4HA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227800 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCTGGTATATATTAATTATAGGAATCTGCTCCCACTCTTTGGCTCATCCAGGCTTTTTACTT
 CAATTGGTCAGATGACTGATTTGATCCACTGAGAAAGATCTGGTGACTTCTCTGAAAGATTATATTAA
 GGCAGAAGAGGACAAGTTAGAACAATAAAAAATGGGCAGAGAAGTTAGATCGGCTAACTAGTACAGCG
 ACAAAGATCCAGAAGGATTTGTTGGGCATCCAGTAAATGCATTCAAATTAATGAAACGCTGAATACTG
 AGTGGAGTGAGTTGGAGAATCTGGTCCTAAGGATATGTCAGATGGCTTTATCTCTAACCTAACCTTCA
 GAGACGACTTTCTAATGATGAAGATCAGGTTGGGCGAGCCAAAGCTCTGTTACGCTCCAGGATACC
 TACAATTTGGATACAGATACCATCTCAAAGGTAATCTCCAGGAGTGAAACACAATCTTTTCAAACGG
 CTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTATTACCATACGGAAGTGGAT
 GGAACAAGCCCTAAGGCAACTGGATGAAGGCGAGATTTCTACCATAGATAAAGTCTCTGTTCTAGATTAT
 TTGAGCTATGCGGTATATCAGCAGGGAGACCTGGATAAGGCACTTTTGCTCACAAGAAGCTTCTTGAAC
 TAGATCTGAACATCAGAGAGCTAATGGTAACTTAAAAATTTTGAGTATATAATGGCTAAAGAAAAAGA
 TGTCAATAAGTCTGCTTCAGATGACCAATCTGATCAGAAAACCTACACCAAGAAAAAGGGGTTGCTGTG
 GATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATGACCCCTCGGA
 GACAGAAAAAATCTTTTGCCGCTACCATGATGAAAACCGTAATCCTAAATTTATCTGGCTCCAGCTAA
 ACAGGAGGATGAATGGGACAAGCCTCGTATTATTCGCTCCATGATATTATTTCTGATGCAGAAATTGAA
 ATCGTCAAAGACCTAGCAAAACCAAGGCTGAGGCGAGCCACCATTCAAACCAATAACAGGAGACTGG
 AGACGGTACATTACAGAATTAGCAAAAGTGCCTGGCTCTCTGGCTATGAAAATCCTGTGGTGTCTCGAAT
 TAATATGAGAATAACAAGATCTAACAGGACTAGATGTTTCCACAGCAGAGGAATTACAGGTAGCAAATTA
 GGAGTTGGAGGACAGTATGAACCCATTTTGACTTTGCACGAAAAGATGAGCCAGATGCTTTCAAAGAGC
 TGGGGACAGGAAATAGAATTGCTACATGGCTGTTTATATGAGTGATGTGTCTGCAGGAGGAGCCACTGT
 TTTTCTGAAGTTGGAGCTAGTGTGGCCAAAAAGGAACTGCTGTTTCTGGTATAATCTGTTTGCC
 AGTGGAGAAGGAGATTATAGTACACGGCATGCAGCCTGTCCAGTGCTAGTTGGCAACAAATGGGTATCCA
 AATAATGGCTCCATGAACGTGGACAAGAATTTCAAGACCTTGTACGTTGTCAGAATTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227800 protein sequence
 Red=Cloning site Green=Tags(s)

MIWYIL IIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSKLDYIKAEEKLEQIKKWAELDRLTSTA
 TKDPEGFVGHVPVNAFKLMKRLNTEWSELENLVLKDMSDGFISNLTIQRYFPNDEDQVGAALKLRQLQDT
 YNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEISTIDKVSVDY
 LSYAVYQQGDLKALLLTKKLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTPKKKGAV
 DYLPERQKYEMLCRGEIKMTPRRQKFLCRYHDGNRNPKFI LAPAQEDEDKPRIIRFHDIISDAEIE
 IVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGLDVSTAEELQVANY
 GVGQYEPHFDFAKDEPDAFKELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKGTAVFWYNLFA
 SGEGDYSTRHAACPVLVGNKWSNKWLHERGQEFRRPCTLSELE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6317_c04.zip

Restriction Sites:

Sgfl-MluI

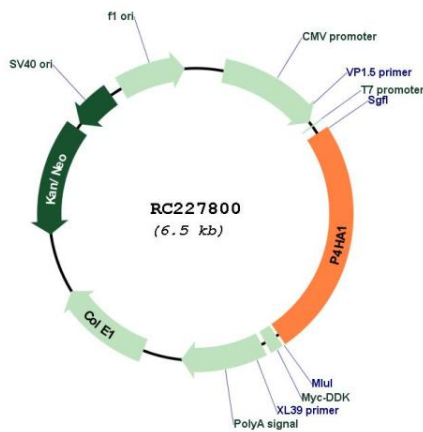
Protein Families: Druggable Genome, P450

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

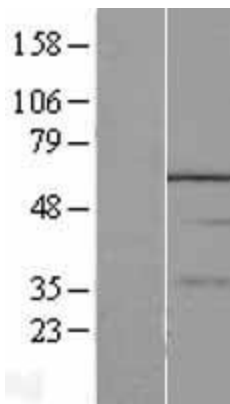
MW: 61 kDa

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]

Product images:



Circular map for RC227800



Western blot validation of overexpression lysate (Cat# [LY428196]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227800 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).