

Product datasheet for **SC125459**

P3H3 (NM_014262) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P3H3 (NM_014262) Human Untagged Clone
Tag:	Tag Free
Symbol:	P3H3
Synonyms:	GRCB; HSU47926; LEPREL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_014262 edited
ATGCTCCGGCTCCTCCGGCCGCTGCTGCTACTGCTGCTGCTGCCTCCCCGGGGTCCCCT
GAGCCCCCGGCTGACCCAGCTGTCCCGGGGGCGCCCCGAGGCCCCCGACTTGCTC
TACGCTGACGGGTGCGCGCCTACGCGGCCGGGGCTTGGGCGCCGGCCGTGGCGCTGCTG
CGGGAGGCGCTGCGGAGCCAGGCGGCGCTGGGCCGGGTGCGGCTGGATTGCGGGGCGAGC
TGCGGGCCGATCCGGGCGCCGCTCCCGCCGTGCTTCTCGGGGCCCGGAGCCCGAC
TCCGGGCCGGGACCCACGCAGGGTCTCTGGGAGCGACAGCTTCTCCGTGCAGCGCTCCGC
CGGCAGACTGCCTGACCCAGTGCAGCAGCAGGAGGCTGGGCCCGGGGCGCGGCGCGG
CTTCGCGTGGGGAGCGCCTCCGGGACGCTTCCGCCGTGCGGAGCCCTACAACCTACCTG
CAGAGGGCCTATTACCAGTTGAAGAAGCTGGATCTGGCAGCTGCGGCAGCACACACCTTC
TTTGTAGCAAACCCATGCACCTGCAGATGCGGGAGGACATGGCTAAGTACAGACGAATG
TCGGGAGTTGCGCCCCAGAGCTTCCGGGACCTGGAGACGCCCCACACTGGGCAGCCTAT
GACACTGGCCTGGAGCTACTGGGCGCCAGGAGGAGGACTGGCACTGCCAGGCTAGAG
GAGGCTCTTCAGGGGAGCCTGGCCAGATGGAGAGCTGCCGTGCTGACTGTGAGGGGCT
GAGGAGCAGCAGGGGGCTGAAGAAGAGGAGGATGGGGCTGCGAGCCAGGGGGCCTCTAT
GAGGCCATTGCAGGACACTGGATTGAGTCTGAGTGCAGTGCAGGCAACGCTGTGTGGGGAA
GCAGCCACACGCCTGGTCGAGCTTCCCTGTCCAGACTTCTTCCCAACCAGCTGAGG
CGGCTACATGAGGCCATGCTCAGGTGGCAATCTGTCCAGGCTATAGAAAATGTCTG
AGTGTCTGCTTCTACCCGGAGGATGAGGCTGCCAAGAGGGCTCTGAACCACTACCAG
GCCAGCTGGGAGAGCCGAGACCTGGCCTCGGACCCAGAGAGGACATCCAGCGCTTATC
CTCCGATCCCTGGGAGAGAAGAGGACGCTCTACTATGCCATGGAGCACCTGGGGACCAGC
CTCAGAGAGGATCAAGAGAAGAGGCCTTGGGACCATGAGCCCGTGAAGCCAAAGCCCTTG
ACCTACTGGAAGGATGTCTTCTCCTGGAGGGTGTGACCTTGACCCAGGATCCAGGCAG
CTGAATGGGTGCGAGCGGGCGGTGTTGGATGGGCTGCTACCCCCAGCCGAGTGTGGGGTG
CTGCTGCAGCTGGCTAAGGATGCAGCTGGGGCTGGAGCCAGGCTGGCTATCGTGGTGC
CGCTCCCCTCACACCCCCATGAACGCTTCGAGGGGCTCACGGTGTCTAAGGCTGCTCAG
CTGGCCCCGGGCTGGGACAGTGGGCAGTCAGGGTGTAGCTGCTTCTGGAGGTGAGCGAG
CGGGTGCAGCCTTGACCCAGGCTACTTCTCCCCGGAACGGCCCTGCATCTGCTCTTC
ACCCACCTGGTGTGCCGAGCGCCATAGAAGGAGAGCAAGAGCAGCGCATGGACCTGAGT
CACCCAGTGCACGCAGACAACCTGCGTCTGACCCCTGACACGGGAGAGTGTGGGGGAG
CCCCAGCCTACACCTATCGGGACTACAGCGGACTCCTCTACCTCAACGATGACTTCCAG
GGTGGGGACCTGTTCTTACGGAGCCCAACGCCCTCACTGTACGGCTCGGGTGGTCTCT
CGCTGTGGGCGCCTTGTGGCCTTCACTCCGGTGTGAGAATCCCCATGGGGTGTGGGCC
GTGACTCGGGGACGGCGCTGTGCCCTGGCACTGTGGCACAGTGGGCACCTGAGCACAGG
GAGCAGGAGTGGACAGAAGCCAAAGAACTGCTGCAGGAGTACAGGAGGAGGAGGAAGAG
GAAGAGGAAGAAATGCCAGCAAAGACCCTTCCCAGAGCCCCCTAGCCGACGGCACCAG
AGGGTCCAAGACAAGACTGGAAGGGCACCTCGGGTTCGGGAGGAGCTGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014262 unedited
 CCCCCTATCCCCGCCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA
 TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG
 CCGCGAATTCGGCACGAGGATCATGCTCCGGCTCCTACGGCCGCTGCTGCTACTGCTGAT
 GCTGGCTCCCCGGGGTGCCTGAGCCCCCGCCTGACCCAGCTGTGCCGGGGGGCGCC
 CCCGCAGGCCCCGACTTGCTGTACGCTGACGGCTGCTCGCTACCCCGCCGGGCTTG
 GCGGCCGCGCTGGCGCTGCTGCGGGAGGCGCTGCGGACCCAGTCGGCGCTGGCCGGCT
 GCGGCTGGATTGTGGGGGAGCTGTGCACGCCGATCCGGGCGCCGCTCCCCGCCGTGC
 TTCTCGGGGCCCGAAGGCCGACTCCGGGCCTGGCACCCACGCCAGGGTCTTGGCAGCG
 ACAGCTTCTCCGTGCAGCGCTCCGCCGCGCAGACTGCCTGACCCAATGCGCAGCACACAG
 GCTGGGCCCGCGGCACGGCACGGCATTTCGTGGGGAGCGCGCTCCGGGACGCCTCCG
 TCGTTGGGAGCCCTACAGCTACCTGCACAGGGCTATTACCACGTGAAGAACTCTGATCT
 GTCGCTGCGGCTGCACACACCTTCTGTGTAGCAAACCCATGCACCTGCAGATGCGGGA
 GGACATGGCATAGTACAGACGAAGACTGGTAGTCTGTAGCAGAGCTTCTGGACCTGAAGA
 CGCTTCCACTGCGCAGCCTAGACACTGGCTGNACTACTGGGCGCCAGAGGCTGACTGGCC
 TGCTAGCTGAGGAGCTCTCANGNGAGCTGGCCAGAGGAAGCTACGGCTGACGGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014262 unedited
 NNNNAATCACTGNACCGCGCCGATTNANNGATCGGTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTGAGAGATCTTACGACCTTATTGCACAGACTGGGTAAGAAAGAACATGGT
 TATACCTCCCAACCCCAACATCCTTTATTTAAAGAATGAGCCTCCTCCCTGCCATTT
 CCGTTCAGGAAAGCACAGGGTCCCATCTGTCCAGAAGCTACAAGTCCGGGAGCGGGGC
 CCCGTCACAGCTCCCAAGCCTGGTGAAGCTCAAAGCTAGCCTGTGCACTGTCTTTGAAT
 CCAGGCCCTTGTATGACCCAAAATGGTGGGGTGAAGGTACAAGAAAATTGCTGTTT
 TGAAAATGATGTCCCCAGGGGCTTCCAGTGCCTGACATCAAAATGGCCTTCCACAA
 ATCAAGTGGCCCTTCTCAAGGAGCTGGCTTAACCACTCATCTGCTCCTCACGGACCC
 ATGTGCCCTTCCATTCTGAATTGGACCCTCTGGTGCCAGCGGGTAAGGGGCTCGGGTA
 AGGGCCTAAAGATGGCATTTTTTCTATTCCGGTCCGACTTCTCCAAGGAAACCTGCAA
 CAGTTCCTTGCTTCTGTCCACTCCTGATCCCTGCGCTCATGTGCACACTTGTGCCTTAT
 TGCCCCGACACAGCGGCATTCTCCAGTGGGGTCCGACCCCATGGGTTTCACGAATTCGA
 GCTGAAGGCACTAGCGCCCTCGCTTTGACTCTCCATACCTGACTTAAGGGCCTTGCTCC
 ATAACGACTGTCCACCTGAAATCATCGTGGAGTTTAGTATGCGCTTGGTCACCAAGAG
 GTGAGCTGTGGCTACCCCAAACTTTTCGGTCCAGGTTCAAAAACCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_014262

Insert Size:

2850 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:	<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:	NM_014262.2 , NP_055077.2
RefSeq Size:	2893 bp
RefSeq ORF:	2211 bp
Locus ID:	10536
UniProt ID:	Q8IVL6
Cytogenetics:	12p13.31
Domains:	2OG-Fell_Oxy, P4Hc
Gene Summary:	The protein encoded by this gene belongs to the leprecan family of proteoglycans, which function as collagen prolyl hydroxylases that are required for proper collagen biosynthesis, folding and assembly. This protein, like other family members, is thought to reside in the endoplasmic reticulum. Epigenetic inactivation of this gene is associated with breast and other cancers, suggesting that it may function as a tumor suppressor. [provided by RefSeq, Aug 2013]