

Product datasheet for **SC324563**

PLOD3 (NM_001084) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLOD3 (NM_001084) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLOD3
Synonyms:	LH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_001084.4
 GCTTCCACATGTGTCAAGCGGCTGGCTCAGCCCAGAGTCCCTGTCTCCCGCCCGCCGGCC
 CGAGCCGCGCCCTCCCCCGCTCCCGTGCGCCCGGGACAATCCTCGCCTTGTCTGTGG
 CGCCGGCATCTGGAGCTTCTGTAGCCTCCGGATACGCCTTTTTTTTCAGGGCGTAGCCCC
 AGCCAAGTGTCTCCCGCGGGCCGCACAGCAGCCGAGCGCCCTTTCCGGAGCTCC
 CCTCCGGAGCTGGGATCCAGGCGGTAGCGGAGATCCCAGGATCCTGGTGTCTGTGGG
 CCGCTCCCAACCATGACCTCCTCGGGCCTGGACCCCGTTCCTGCTGCTGCTGCCGCT
 GCTGCTGCCCTGCGGCCTCAGCCTCCGACCGCCCGGGCCGAGACCCGGTCAACCC
 AGAGAAGTGTGGTGATCACTGTGGCCACAGCTGAAACCGAGGGGTACCTGCGTTTCT
 GCGCTCTGCGGAGTTCTCAACTACACTGTGCGGACCCTGGGCCTGGGAGAGGAGTGGG
 AGGGGGTGTGTGGCTCGAACAGTTGGTGGAGGACAGAAGGTCCGGTGGTTAAAGAAGGA
 AATGGAGAAATACGCTGACCGGGAGGATATGATCATCATGTTTGTGGATAGCTACGACGT
 GATTCTGGCCGCGACCCACAGAGCTGCTGAAGAAGTTCGTCCAGAGTGGCAGCCGCT
 GCTCTTCTGTCAGAGAGCTTCTGCTGGCCGAGTGGGGCTGGCGGAGCAGTACCCTGA
 GGTGGGACGCGGAAGCGCTTCCCTCAATTCTGGTGGATTATCGTTTTTCCACCACCAT
 CCACAAATCGTGCGCCAGTGAAGTACAAGGATGATGACGACGACCAGCTGTTCTACAC
 ACGGCTCTACCTGGACCCAGGACTGAGGGAGAACTCAGCCTTAATCTGGATCATAAGTC
 TCGGATCTTTCAGAACCTCAACGGGGCTTTAGATGAAGTGGTTTTAAAGTTTGTACGGAA
 CCGTGTGCGTATCCGGAACGTGGCCTACGACACGCTCCCATTTGGTCCATGGAACCG
 TCCCACTAAGCTGCAGCTCAACTACCTGGGAACTACGTCCCAATGGCTGGACTCCTGA
 GGGAGGCTGTGGCTTCTGCAACCAGGACCGGAGGACACTCCCGGGGGGCGAGCCTCCCC
 CCGGGTGTCTGCGCGTGTGTTGGAACAGCCTACTCCGTTTCTGCCCGCTTCTCTGCA
 GCGGCTGCTACTCCTGGACTATCCCCCGACAGGGTACCCCTTTCTGCACAACAACGA
 GGTCTTCCATGAACCCACATCGCTGACTCCTGGCCGACGCTCCAGGACCACTTCTCAGC
 TGTGAAGCTCGTGGGGCCGAGGAGGCTCTGAGCCAGGCGAGGCCAGGACATGGCCAT
 GGACCTGTGTGCGCAGGACCCCGAGTGTGAGTTCTACTTCAGCCTGGACGCCGACGCTGT
 CCTCACCAACCTGCAGACCCTGCGTATCCTCATTGAGGAGAACAGGAAGGTGATCGCCCC
 CATGCTGTCCCGCACGGCAAGCTGTGGTCCAATTCTGGGGCGCCTGAGCCCCGATGA
 GTACTACGCCGCTCCGAGGACTACGTGGAGCTGGTGCAGCGGAAGCGAGTGGGTGTGTG
 GAATGTACCATACATCTCCAGGCTATGTGATCCGGGTGATACCCTGCGGATGGAGCT
 GCCCAGAGGGATGTGTTCTCGGGCAGTGACACAGACCCGGACATGGCCTTCTGTAAGAG
 CTTTCGAGACAAGGGCATCTTCTCCATCTGAGCAATCAGCATGAATTTGGCCGGCTCCT
 GGCCACTTCCAGATACGACACGGAGCACCTGCACCCGACCTCTGGCAGATCTTCGACAA
 CCCCCTGACTGGAAGGAGCAGTACATCCACGAGAACTACAGCCGGGCCCTGGAAGGGGA
 AGGAATCGTGGAGCAGCCATGCCCGGACGTGACTGGTCCCCTGCTGTGAGAACAAAT
 GTGTGATGAGCTGGTGGCAGAGATGGAGCACTACGGCCAGTGGTCAGGCGGCCGGCATGA
 GGATCAAGGCTGGTGGAGGCTACGAGAATGTGCCACCGTGGACATCCACATGAAGCA
 GGTGGGTACGAGGACAGTGGCTGCAGCTGCTGCGGACGATGTGGGCCCATGACCGA
 GAGCCTGTTTCCCGTTACCACACCAAGCGCGGGCGGTGATGAACTTTGTGGTTTCGTA
 CCGGCCAGACGACGACCGCTCTCTGCGGCCACACCAGACTCATCCACCTTACCCTCAA
 CGTTGCCCTCAACCACAAGGGCCTGGACTATGAGGGAGGTGGCTGCCGCTTCTGCGCTA
 CGACTGTGTGATCTCTCCCGAGGAAGGGCTGGGCACTCCTGCACCCCGGCCGCTCAC
 CCACTACCACGAGGGGCTGCCAACGACCTGGGGCACACGCTACATCATGGTGTCTTTGT
 CGACCCCTGACACTCAACCACTTGCCAAACCTGCCCTGCCATTGTGCCTTTTTAGGGGG
 CCTGGCCCCGCTCCTGGAGTTGGGGATGGGTCTCTGTCTCCCACTTCTGAGTTC
 ATGTTCCGCGTGCCTGAACTGAATATGTCACCTTGCTCCCAAGACACGGCCCTCTCAGGA
 AGCTCCCGGAGTCCCGCCTCTCTCCTCGCCACAGGGGTTCTGGGCACAGGGCTTCT
 GGGGACTCCCGCGTGATAAATTATTAATGTTCCGCAGTCTCACTCTGAATAAAGGACAG
 TTTGTAATAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:	NM_001084
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
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:	<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_001084.4 , NP_001075.1
RefSeq Size:	2995 bp
RefSeq ORF:	2217 bp
Locus ID:	8985
UniProt ID:	O60568
Cytogenetics:	7q22.1
Domains:	2OG-Fell_Oxy, P4Hc
Protein Pathways:	Lysine degradation

Gene Summary:

The protein encoded by this gene is a membrane-bound homodimeric enzyme that is localized to the cisternae of the rough endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VIB have deficiencies in lysyl hydroxylase activity. [provided by RefSeq, Jul 2008]