

## Product datasheet for **SC124926**

### ZDHHC16 (NM\_198044) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC16 (NM_198044) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZDHHC16
Synonyms:	APH2; DHHC-16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_198044, the custom clone sequence may differ by one or more nucleotides

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ATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCGGCCGCCTCGCTCCGCCTCCTTCTGCTGCTGGGTT
ACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCG
CTCCCTGCTCTACAACCTCTTTGGGGGAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGG
CTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCTGGTATCGTGCTGACAGGCTCCA
TTGTAGCTATCGCCTACCTGTGTGCTCCTGCCTCTCATCCTCCGAACCTACTCAGTGCCACGACTCTGCTG
GCATTTCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTCCG
CCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCA
AGCCAGCCCGAACACACCCTGCAGCATCTGCAACAGCTATGGAAGTTGGGACCTTTCCGGGAGGCTTA
TGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAACACTACAGGCGGTTGCCAACAGACTTATCAC
CAGACCCACCCACCCACCTTCTCCTTTTCGAGAAAGGATGACTCACAAGAGTCTTGTCTACCTCTGGTTCC
TGTGCAGTTCTGTGGCACTTGCCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGA
GACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGCAGAGTATTTAGG
AATCCTTACAACCTACGGCTGCTTGGACAACCTGGAAGGTATTCTGGGTGTGGATACAGGAAGGCACTGGC
TTACTCGGGTGTCTTACCTTCTAGTCACTTGGCCATGGGAATGGAATGAGCTGGGAGCCCCCTCCCTG
GGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_198044 unedited NGTTTCGCATTTTGTAAATACGAACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCGGGT CCGGGTCCGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTGGATTGAGCCGGGCC CGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCG GTTTGGCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCT GCTGGGCCCGGCCCGCTCTGCCTCCGCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTG TCCACCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGCTGCCTGCGCTC CCTGCTTACAACCTCCTTTGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGT CTAAGTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCTGCTGGT CGTGTGACAGGCTCCATTGTAGCTATCGCCTACCTGTGTGCTCCTGCCTCTCATCTCCG AACCTACTCAGTGCCACGACTCTGCTGGCATTCTTCTATAGCCACTGGAATCTGATCCT GATTGTCTTCCACTACTACCAGGCCATCACCCTCCGCTGGGTACCCACCCAGGGCAN GGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCAAGCCAGCCCGAA CACACCACTGCAACATCTGCACAGGTGTGTGCTGAAGATGAAACCACTTGCCTGGCTA AACAAATNGTGTGGCCACTATANCCATCGGNACTCCTCTCTNTCTGCTNTTTCATGACT CTGGGGCTGNGTCTACTGCACTAATGGAAGTTGGGGACCCCTCCCGGGAAGCCTTATGCT CT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_198044
<b>OTI Disclaimer:</b>	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).
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_198044.1</a></u> , <u><a href="#">NP_932161.1</a></u>
<b>RefSeq Size:</b>	1699 bp
<b>RefSeq ORF:</b>	1017 bp
<b>Locus ID:</b>	84287
<b>UniProt ID:</b>	<u><a href="#">Q969W1</a></u>
<b>Cytogenetics:</b>	10q24.1
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

Palmitoyl acyltransferase that mediates palmitoylation of proteins such as PLN and ZDHHC6 (PubMed:28826475). Required during embryonic heart development and cardiac function, possibly by mediating palmitoylation of PLN, thereby affecting PLN phosphorylation and homooligomerization (By similarity). Also required for eye development (By similarity). Palmitoylates ZDHHC6, affecting the quaternary assembly of ZDHHC6, its localization, stability and function (PubMed:28826475). May play a role in DNA damage response (By similarity). May be involved in apoptosis regulation (By similarity). Involved in the proliferation of neural stem cells by regulating the FGF/ERK pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR, and lacks an alternate exon and uses an alternate in-frame splice site in the 5' coding region, compared to variant 5. It encodes isoform 3, which is shorter than isoform 1.