

Product datasheet for **SC108784**

ZDHHC16 (NM_032327) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC16 (NM_032327) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZDHHC16
Synonyms:	APH2; DHHC-16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032327, the custom clone sequence may differ by one or more nucleotides

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ATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCGGCCGCTCTGCCTCCGCCTCCTTCTGCTGCTGGGT  
ACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCG  
CTCCCTGCTCTACAACCTCTTTGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGG  
CTGGTAGACAACGTGATCCGCTGGTTGGAGTGGTGTTCGTGGTCTGGTATCGTGCTGACAGGCTCCA  
TTGTAGCTATCGCCTACCTGTGTGCTCCTGCCTCTCATCCTCCGAACCTACTCAGTGCCACGACTCTGCTG  
GCATTTCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTCCG  
CCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCA  
AGCCAGCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCTG  
GCTAAACAATTGTGTGGGCCACTATAACCATCGGTA CTCTTTCTTTCTGCTTTTTTCATGACTCTGGGC  
TGTGTCTACTGCAGCTATGGAAGTTGGGACCTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAAC  
AGCTCGACAAGAACAACACTACAGGCGGTTGCCAACCAAGACTTATCACCAGACCCACCCACCTTCTC  
CTTTGAGAAAAGGATGACTCACAAGAGTCTTGTCTACCTCTGGTTCCTGTGCAGTTCTGTGGCACTTGC  
CTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCA  
ACAAGAAGGAGAGACGTGGCTACAGGCCAAGGGCAGAGTATTTAGGAATCCTTACAACACTACGGCTGCT  
GGACAACCTGGAAGTATTCCTGGGTGTGGATACAGGAAGGCAGTACTCGGGTGTCTTACCTTCT  
AGTCACTTGCCCATGGGAATGGAATGAGCTGGGAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTG  
TGATGGCAGTGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032327 unedited
 NGAACCGTACAAATTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGGAT
 GGGCTGGCGGGCCGGTCCGGGTCCGCTGCCCTGGCCTGCGGGCGGGGCCATGGTGGTTT
 GGATTGAGCCGGGCCGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGCGGCAG
 AGGCTACGGGGCTCGGTTTGGCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGG
 CCAGCGGAGCCTGCTGCTGGGCCCGCCGCTCTGCCTCCGCCTCCTTCTGCTGCTGGG
 TTACAGGCGCCGCTGTCCACCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAA
 GGTCTGCCTGCGCTCCCTGCTCTACAACCTCTTTGGGGCAGTGACACCGCTGTTGATGC
 TGCTTTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGT
 CGTGGTCTGGTATCGTCTGACAGGCTCCATTGTAGCTATCGCTACCTGTGTCTCT
 GCCTCTCATCCTCGAACCTACTCAGTGCCAGACTCTGCTGGCATTCTTCTATAGCCA
 CTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTCCGCTGGGTA
 CCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCC
 CAAGCCAGCCGAACACACCACTGCAGCATCTGCAACAGCTATGGAAGTTGGGACCTTTT
 CCGGGAGGCTTATGCTGCCCTTGAGAAAAGAAACAGCTCGACAAGAACAACACTACAGGC
 GGTGCCAACCACTTATCACCAGACCCACCACCCACCTTCTCCTTTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032327 unedited
 GTACCGCGGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAATCGAA
 TACCTTTATTTGTGCTCCCTTAAGCAGCATGTGAGAAGTGGCAGTGACCTCAGCAGCAG
 GCCTGGTATCTTTGCCCTGTTGAGAAGCCAAGATCTCAGCTGACTAGTCAGGTGTTTTT
 TCAGACAGCAAGTAGAAGAGGTGGTGGCCAACCTCAGTGTGATCCTGGAGGAGTCCG
 GGTGAGCAGTGGCAAGGTAGGTAGCTAGCTGCCTGACCCTAGTCTGGGGTTGGAAGT
 CTGTTTGCTGAGTAAAGGGATGTCAGTCTAAGATTCTCCACATGTGTCTTTCTTTTG
 CAGGGGTAAAAGGCTGGCCCTGAATTGCCCTGCTGGNACCCTAAGGCNGCCCACTGGCT
 CTTTTTGATCAGGATTCTTAAAAAGCTGCCTTGAAGCCCTGAAATACCTAGGGACCAA
 ATGGAGGCTCAATTTGGGTTGAACAATCCACTTAACTTGGCTTTACAAAGTGGGGGAC
 CCTCCCCCGGGGGGGGGTCCCATTTTTTTCTTTCCCTGGGGGAAGGGCTTTAAAGGTA
 AAACCCCCCGGTTAACCCCGGCTTTTCTTTTCCCCCCCCAAAATACCTTTTTTTTCCC
 ACCCCCCCCCCCTTTAAAGGGCTCCAAAAAATCTCCCCCTGGGGCCGAGCCCCCCCCAG
 CTTTTCTTTTTGTGTTGGGGGGCCCTCTCCGCGCTGCCCCCCCCCCCGGGAGGAAA
 AAACACTCTCTTCTTCTTCTTTCGCGGCGCCCCCCCCCGTTGTTGTTCCCCCATATTTCTT
 CCACCCTCCCATTTGGGTGTAACCATCTTTTTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_032327

Insert Size:

1790 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_032327.2 , NP_115703.2
RefSeq Size:	1816 bp
RefSeq ORF:	1134 bp
Locus ID:	84287
UniProt ID:	Q969W1
Cytogenetics:	10q24.1
Domains:	zf-DHHC
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 5. Variants 1 and 5 encode the same isoform (1), which is the longest isoform.</p>