

Product datasheet for **SC335603**

ZDHHC16 (NM_001287803) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC16 (NM_001287803) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZDHHC16
Synonyms:	APH2; DHHC-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335603 representing NM_001287803. Blue=Insert sequence Red=Cloning site Green=Tag(s)

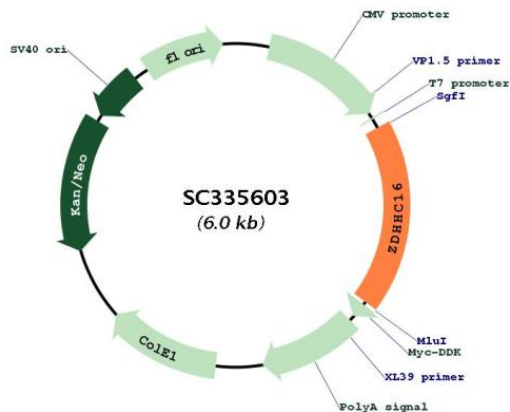
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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCGCCGCCTCGCTCCGCCCTCTTCTGCTGCTGGGT
TACAGGCGCCGCTGTCCACCTCTACTCCGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTG
CGCTCCCTGCTCTACAACCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTAC
TGGCTGGTAGACAACGTGATCCGCTGGTTGGAGTGGTGTTCGTGGTCTGGTATCGTGTGACAGGC
TCCATTGTAGCTATCGCCTACCTGTGTCTCCTGCCTCTCATCCTCGAACCTACTCAGTGCCACGACTC
TGCTGGCATTCTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACC
ACTCCGCCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATT
TACCCCAAGCCAGCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCAC
TGCCCCCTGGCTAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTCATG
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AAAATGAAACAGCTCGACAAGAACAACACTACAGGCGGTTGCCAACAGACTTATCACCAGACCCACCA
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GGTGAGACTAGCATCGAAAGGCATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGCAGAGTA
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CACTGGCTTACTCGGGTGTCTTACCTTCTAGTCACTTGCCCCATGGAATGGAATGAGCTGGGAGCCC
CCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001287803

Insert Size: 1080 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:

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_001287803.1](#)

RefSeq Size: 1982 bp

RefSeq ORF: 1080 bp

Locus ID: 84287

UniProt ID: [Q969W1](#)

Cytogenetics: 10q24.1

Protein Families: Transmembrane

MW: 41.8 kDa

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 (6) uses an alternate in-frame splice site in the 3' coding region, compared to variant 5. It encodes isoform 5, which is shorter than isoform 1.