

Product datasheet for SC313132

ZDHHC16 (NM_198043) Human Untagged Clone

Product data:

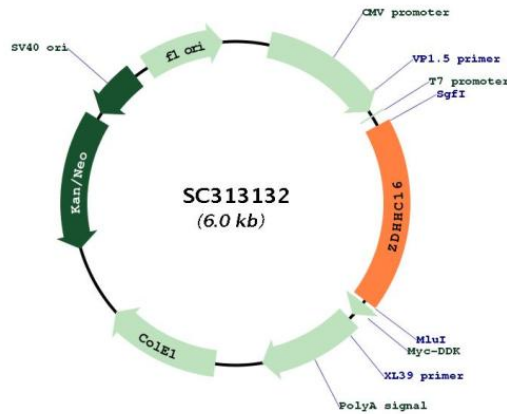
Product Type:	Expression Plasmids
Product Name:	ZDHHC16 (NM_198043) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZDHHC16
Synonyms:	APH2; DHHC-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313132 representing NM_198043. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCGCCGCCTCGCTCCGCCCTCTTCTGCTGCTGGGT
TACAGGCGCCGCTGTCCACCTCTACTCCGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTG
CGCTCCCTGCTCTACAACCTCTTGGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTAC
TGGCTGGTAGACAACGTGATCCGCTGGTTGGAGTGGTGTTCGTGGTCTGGTATCGTGTGACAGGC
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TGCTGGCATTCTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACC
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TACCCCAAGCCAGCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCAC
TGCCCCCTGGCTAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTATG
ACTCTGGGCTGTGTCTACTGCAGCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAG
ACTTATCACCAGACCCACCCACCTTCTCCTTTGAGAAAGGATGACTCACAAAGAGTCTTGTCTAC
CTCTGGTTCCTGTGCAGTCTGTGGCACTTGCCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATC
AGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGC
AGAGATTTAGGAATCCTTACAACCTACGGCTGCTTGGACAACCTGGAAGGTATTCCTGGGTGTGGATA
GGAAGGCACTGGCTTACTCGGGTGTCTTACCTTCTAGTCACTTGCCTGGAATGGAATGGAATGAGCTGG
GAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_198043

Insert Size: 1086 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).

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:

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_198043.2](#)

RefSeq Size: 1808 bp

RefSeq ORF: 1086 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 (2) differs in the 5' UTR and lacks an alternate in-frame exon in the 3' coding region, compared to variant 5. It encodes isoform 2, which is shorter than isoform 1.