

Product datasheet for **RG200942**

ZDHHC16 (NM_198045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC16 (NM_198045) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZDHHC16
Synonyms:	APH2; DHHC-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200942 representing NM_198045 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCGGCCGCCTCGCCTCCGCCTCCTTCTGCTGCTGGGT
ACAGGCGCCGCTGTCCACCTCTACTCCGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCC
CTCCCTGCTCTACAACCTCTTTGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGG
CTGGTAGACAACGTGATCCGCTGGTTGGAGTGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGA
AGTGCATTTACCCAAGCCAGCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGA
TCAACACTGCCCTGGCTAAACAATTGTGTGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTT
TTCATGACTCTGGGCTGTGTCTACTGCAGCTATGGAAGTTGGGACCTTTCCGGGAGGCTTATGCTGCCA
TTGAGACTTATCACCAGACCCACCACCCACCTTCTCCTTTGAGAAAGGATGACTCACAAGAGTCTTGT
CTACCTCTGGTTCCTGTGCAGTTCTGTGGCACTTGGCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTC
ATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGG
GCAGAGTATTTAGGAATCCTTACAACACTACGGCTGCTTGGACAACCTGGAAGGATTCCTGGGTGTGGATAC
AGGAAGGCACTGGCTTACTCGGGTGTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGG
GAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200942 representing NM_198045
Red=Cloning site Green=Tags(s)

MRGQRSLLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAEFEPVYW
 LVDNVIRWFGVGRNDIATVSICKKCIYKPARTHHCSICNRCVLKMDHHCPLNNCVGHYNHRYFFSFCF
 FMTLGCVYCSYGSWDLFREAYAAIETYHQTPPTFSFRERMTHKSLVYLWFLCSSVALALGALTVWHAVL
 ISRGETSIERHINKERRRLQAKGRVFRNPYNYGCLDNWVFLGVDTRHHLTRVLLPSSHLPHGNGMSW
 EPPPWVTAHSASVMAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198045

ORF Size: 888 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_198045.2](#)

RefSeq Size: 1581 bp

RefSeq ORF: 891 bp

Locus ID: 84287

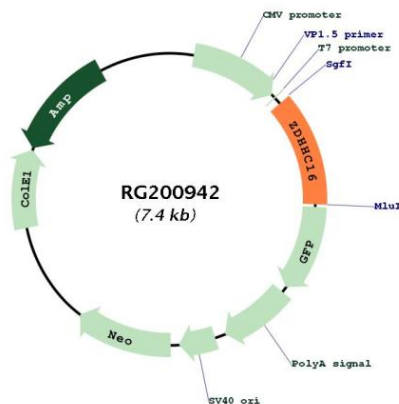
UniProt ID: [Q969W1](#)

Cytogenetics: 10q24.1

Protein Families: 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]

Product images:



Circular map for RG200942