

Product datasheet for **RG220850**

ZDHHC16 (NM_198046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC16 (NM_198046) 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:	>RG220850 representing NM_198046 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCGCCGCCTCTGCCTCCGCCTCCTTCTGCTGCTGGGT
ACAGGCGCCGCTGTCCACCTCTACTCCGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCC
CTCCCTGCTCTACAACCTCTTTGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGCTACTGG
CTGGTAGACAACGTGATCCGCTGGTTGGAGTGGTGTTCGTGGTCTGGTATCGTCTGACAGGCTCCA
TTGTAGCTATCGCTACCTGTGTCTGCCTCTCATCCTCCGAACCTACTCAGTGCCACGACTCTGCTG
GCATTTCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTCCG
CCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCAATTTACCCCA
AGCCAGCCCAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCTG
GCTAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTTTCTGCTTTTTCATGACTCTGGGC
TGTGTCTACTGCAGCTATGGAAGTTGGGACCTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAAC
AGCTCGACAAGAACAACACTACAGGCGTTGCCAACCAGACTTATCACCAGACCCACCACCTTCTC
CTTTGAGAAAAGGATGACTCACAAGAGTCTGTCTACCTCTGGTTCCTGTGCAGTCTGTGGCACTTGCC
CTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCA
ACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGCAGAGTATTTAGGAATCCTTACAACACTACGGCTGCTT
GGACAACCTGGAAGGTATTCTGGGTGTGGATACAGGAAGGCACTGGCTTACTCGGGTGTCTTACCTTCT
AGTCACTTGCCCATGGGAATGGAATGAGCTGGGAGCCCTCCCTGGGTGACTGCTCACTCAGCCTCTG
TGATGGCAGTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220850 representing NM_198046
 Red=Cloning site Green=Tags(s)

MRGQRLLLLGPARLCLRLLLLLGYRRRCPLLRGLVQRWRYGKVCRLSLLYNSFGGSDTAVDAAFEPVYW
 LVDNVIRWFGVVFVVLVIVLTGSIVAIAYLCVLPILRTYVPRLCWHFFYSHWNLILIVFHYYQAITTP
 PGYPPQGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHCPLWLNCCVGHYNHRYFFSFCFFMTLG
 CVYCSYGSWDLFREAYAAIEKMKQLDKNKLQAVANQTYHQTPPTFSFRERMTHKSLVYLWFLCSSVALA
 LGALTVWHAVLISRGETSIERHINKERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTGRHWLTRVLLPS
 SHLPHNGMSWEPPPWTASASVMAV

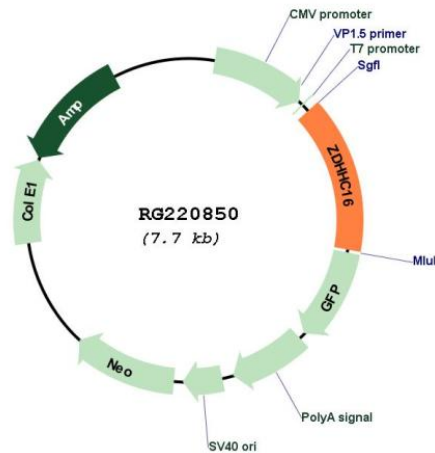
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_198046

ORF Size:	1131 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:	<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_198046.3
RefSeq Size:	1973 bp
RefSeq ORF:	1134 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]