

Product datasheet for RC227047

ZDHHC7 (NM_001145548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC7 (NM_001145548) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZDHHC7
Synonyms:	DHHC7; SERZ-B; SERZ1; ZNF370
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227047 representing NM_001145548 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCATCAGGACACAGGCTCCGGGACGTCGAGCATCATCCTCTCCTGGCTGAAAAATGACAACATG
ACTCTTCATCGTCTCCTCCTCCGAGGCTGACGTGGCTGACCGGGTCTGGTTCATCCGTGACGGCTGCGG
CATGATCTGTGCTGTCATGACGTGGCTTCTGGTCGCCTATGCAGACTTCGTGGTACTTCGTCATGCTG
CTGCCTCCAAAGACTTCTGGTACTCTGTGGTCAACGGGGTCACTTTAACTGCTTGCCCGTCTTGCC
TGTCATCCACCTGAGAACCATGCTCACCGACCCTGAAAAATCCAGTGACTGCCACCATCTGCCTGCAC
AGTGAAAACTGGGCTGGACCCAAACCTTGTGGCATTGTGGTGAGGGAACCGAGTCTGTGCAAAGCCTC
CTGCTTGGGGCAGTACCCAAAGGAAACGCTACGAAAGAATACATGGAGAGCTTGACGCTGAAGCCCGGG
AAGTCACTACAAGTGCCCAAGTGTGCTGTATTAAACCGAGCGGCCACCAGTGCAGTATTTGCAA
AAGATGTATTCGAAAAATGGATCATCACTGCCCGTGGGTGAACAATTGTGTAGGAGAAAAGAATCAAAGA
TTTTTTGTGCTCTTCACTATGTATAGCTCTGTCTTCACTCCATGCTCTGATCCTTTGTGGATTTCACT
TCATCTCCTGTGTCGAGGGCAGTGGACTGAATGCAGTGATTTTTACCTCCGATAACTGTAATCCTGTT
GATCTTCTGTGCTTGGGGTCTTCTGTTTTTCACTTCACTGCAGTTATGTTTGGCACCCAAATCCAC
TCCATATGCAACGACGAGACGGAGATCGAGCGATTGAAAAGTGAGAAGCCACATGGGAGCGGAGGCTGC
GATGGGAAGGGATGAAGTCCGTCTTGGGGGGCCCCCTCACTCCTCGGATGAATCCCTTTGTGGGCTT
CCGATTTAGGCGACTGCCACGAGACCCAGAAAAGGTGGCCCGGAGTTCTCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227047 representing NM_001145548
Red=Cloning site Green=Tags(s)

MQPSGHRRLRDVEHHPLLAENDNYDSSSSSSSEADVADRWFIRDGCGMICAVMTWLLVAYADFVVTVMML
 LPSKDFWYSVNVGVI FNCLAVLALSSHLRTMLTDPEKSSDCRPSACTVKTLGDPTLVGICGEGTESVQSL
 LLGAVPKGNATKEYMESLQLKPGVEVIYKCPKCCCIKPERAHHCSICKRCIRKMDHHCWPVWNNVCVGEKNQR
 FFVLFMYIALSSVHALILCGFQFISCVRGQWTECSDFSPPI TVILLIFLCLLEGLLFFFTAVMFGTQIH
 SICNDETEIERLKSEKPTWERRLRWEGMKS VFGGPPSLLWMNPFVGRFRRLPTRRPRKGGPEFSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1278_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145548

ORF Size: 1035 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_001145548.2](#)

RefSeq ORF: 1038 bp

Locus ID: 55625

UniProt ID: [Q9NXF8](#)

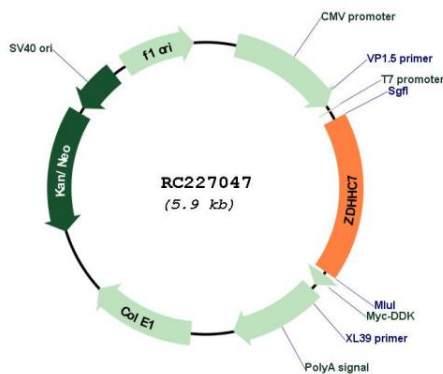
Cytogenetics: 16q24.1

Protein Families: Transmembrane

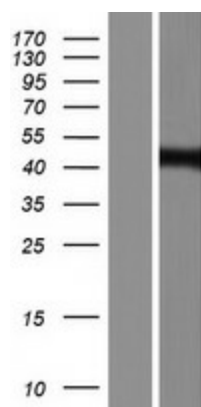
MW: 38.7 kDa

Gene Summary: Palmitoyltransferase with broad specificity (PubMed:22031296, PubMed:28196865). Palmitoylates JAM3 (PubMed:28196865). Palmitoylates SNAP25 and DLG4/PSD95 (By similarity). Palmitoylates sex steroid hormone receptors, including ESR1, PGR and AR, thereby regulating their targeting to the plasma membrane and their function in rapid intracellular signaling upon binding of sex hormones (PubMed:22031296). May play a role in follicle stimulation hormone (FSH) activation of testicular Sertoli cells (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227047



Western blot validation of overexpression lysate (Cat# [LY428939]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227047 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).