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Product datasheet for MR205528

Zdhhc16 (NM_023740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zdhhc16 (NM_023740) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zdhhc16
Synonyms:	1500015N03Rik; Aph2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205528 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGGCCAGCGAAGTCTGCTGTTGGGGCCAGCCCGCCTCTGCCTGCGCCTCCTTTTGCTCCTGGGCT
ACCGGCGTCGATGCCCACCTCTGCTCCGGGGCCTGGTACAGCGCTGGCGTTATGGCAAGGTTTGCCTGCG
CTCCCTGCTCTACAATTCCTTTGGAGGCAGTGACACTGCCGTTGATGCTGCCTTTGAGCCTGTCTACTGG
CTGGTGGACAATGTGATCCGCTGGTTTGGAGTGGTGTTTGTGGTGCTGGTGATCGTGCTGACCGGGTCCA
TCGTGGCCATTGCTTATCTGTGTGTCCTGCCCCTCATCCTCCGAACCTACTCGGTACCACGGCTCTGCTG
GCATTTCTTCTATAGTCACTGGAATCTGATCCTCATCGTCTTCCATTACTACCAGGCCATCACCACTCCT
CCTGGATACCCACCCCAGGGCAGGAATGACATTGCTACTGTCTCCATCTGTAAGAAGTGCATTTATCCCA
AGCCAGCCCGAACACACCACCGCAGCATCTGTAATAGGTGTGTGCTGAAGATGGATCATCACTGCCCCTG
GCTAAACAACTGTGTGGGCCACTATAACCATCGCTACTTCTTCTCTTTCTGCTTTTTCATGACTCTGGGC
TGTGTCTACTGTAGCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGACGTACCACC
AGACTCCACCACCTACCTTCTCCTTTCGAGAAAGGATAACTCACAAGAGTCTTGTCTACCTCTGGTTCCT
GTGCAGTTCTGTGGCCCTGGCCCTGGGTGCCCTAACCATGTGGCATGCTGTTCTCATCAGTCGGGGTGAG
ACTAGCATCGAAAGGCATATCAACAAGAAGGAGAGGCGCCGGTTACAGGCCAAGGGCAGGGTGTTTAGGA
ATCCTTACAACTATGGCTGCTTGGACAACTGGAAGGTGTTCCTAGGTGTGGACACAGGAAGGCATTGGCT
GACCCGGGTGCTGTTACCTTCTAGTCACCTGCCCCATGGGAATGGGATGAGCTGGGACCCTCCTCCCTGG
GTGACTGCTCACTCAGCCTCTGTGATGGCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

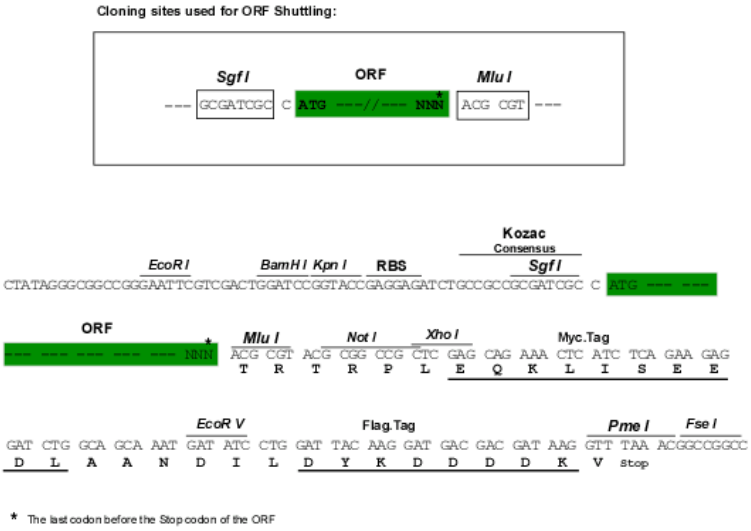
>MR205528 protein sequence
Red=Cloning site Green=Tags(s)

MRGQRSLLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEPVYW
LVDNVIRWFGVVFVVLVIVLTGSIVAIAYLCVLPLILRTYSVPRLCWHFFYSHWNLILIVFHYYQAITTP
PGYPPQGRNDIATVSICKKCIYPKPARTHHRSICNRCVLKMDHHCPWLNNCVGHYNHRYFFSFCFFMTLG
CVYCSYGSWDLFREAYAAIETYHQTPPPTFSFRERITHKSLVYLWFLCSSVALALGALTMWHAVLISRGE
TSIERHINKKERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTGRHWLTRVLLPSSHLPHGNGMSWDPPPW
VTAHSASVMAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023740

ORF Size: 1086 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_023740.1, NM_023740.2, NP_076229.2

RefSeq Size: 1838 bp

RefSeq ORF: 1086 bp

Locus ID: 74168

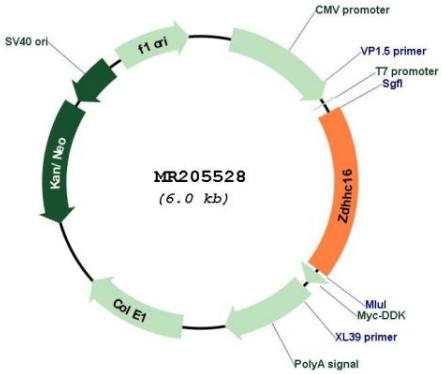
UniProt ID: Q9ESG8

Cytogenetics: 19 C3

MW: 41.8 kDa

Gene Summary: Palmitoyl acyltransferase that mediates palmitoylation of proteins such as PLN and ZDHHC6 (PubMed:26644582). Required during embryonic heart development and cardiac function, possibly by mediating palmitoylation of PLN, thereby affecting PLN phosphorylation and homooligomerization (PubMed:26644582). Also required for eye development (PubMed:26644582). Palmitoylates ZDHHC6, affecting the quaternary assembly of ZDHHC6, its localization, stability and function (By similarity). May play a role in DNA damage response (PubMed:27159997). May be involved in apoptosis regulation (PubMed:12021275). 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 MR205528