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Product datasheet for RC237245

ZDHHC20 (NM_001286638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC20 (NM_001286638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZDHHC20
Synonyms:	4933421L13Rik; DHHC-20; DHHC20
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237245 representing NM_001286638 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTGTATGGTCCTATTGGATGACAATTTTCACATCTCCCGCTTCCCCCTCCAAAGAGTTCTACTTGT CCAATTCTGAAAAGGAACGTTATGAAAAAGAATTCAGCCAAGAAAGACAACAAGAAATTTTGAGAAGAGC AGCAAGAGCTTTACCTATCTATACCACATCAGCTTCAAAAACTATCAGATATTGTGAAAAATGTCAGCTG ATTAAACCTGATCGGGCGCATCACTGCTCAGCCTGTGACTCATGTATTCTTAAGATGGATCATCACTGTC CTTGGGTGAATAACTGTGTGGGATTTTCTAATTACAAATTCTTCCTGCTGTTTTTATTGTATTCCCTATT ATATTGCCTTTTCGTGGCTGCAACAGTTTTAGAGTACTTTATAAAATTTTGGACGAATGAACTGACAGAT ACACGTGCAAAATTCCACGTACTTTTTCTTTTCTTTGTGTCTGCAATGTTCTTCATCAGCGTCCTCTCAC TTTTCAGCTACCACTGCTGGCTAGTTGGAAAAAATAGAACAACAATAGAATCATTCCGCGCACCCACGTT TTCATACGGACCTGATGGAAATGGTTTCTCTCTTGGATGCAGTAAAAATTGGAGACAAGTCTTTGGTGAT GAAAAGAAATATTGGCTACTTCCAATATTTTCAAGCTTGGGTGATGGTTGCAGTTTTCCAACTCGCCTTG TGGGGATGGATCCAGAACAAGCTTCTGTTACAAACCAGAATGAGTATGCCAGAAGTAGTGGCTCAAATCA ACCTTTTCCTATCAAACCACTTAGTGAATCAAAAAACCGCTTGTTGGACAGTGAATCTCAGTGGCTGGAG AATGGAGCTGAAGAAGGCATCGTCAAATCAGGTGTA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

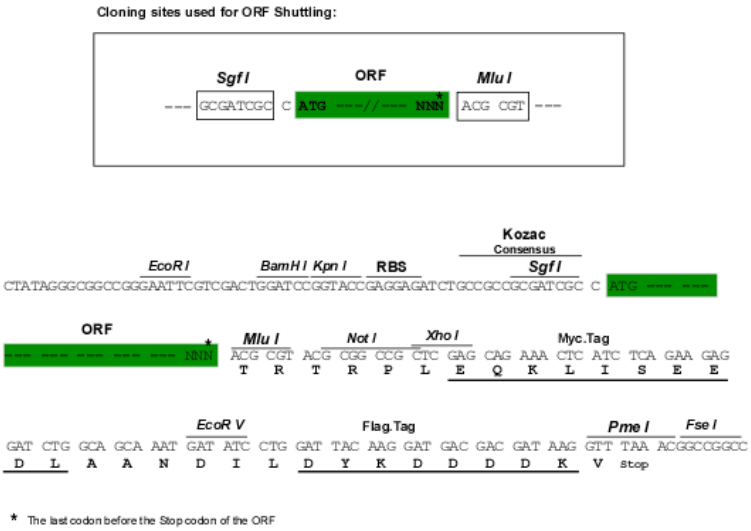
>RC237245 representing NM_001286638
Red=Cloning site Green=Tags(s)

MFVWSYWMTIFTSPASPSKEFYLSNSEKERYEKEFSQERQQEILRRAARALPIYTTSASKTIRYCEKCQL
IKPDRAHHCSACDSCILKMDHHCPWVNNCVGFSNYKFFLLFLLYSLLYCLFVAATVLEYFIKFWTNELTD
TRAKFHVLFLFFVSAMFFISVLSLFSYHCWLVGKNRTTIESFRAPTFSYGPDGNGFSLGCSKNWRQVFGD
EKKYWLLPIFSSLGDGCSFPTRLVGMDPEQASVTNQNEYARSSGSNQPFPIKPLSESKNRLLDSESQWLE
NGAEEGIVKSGV

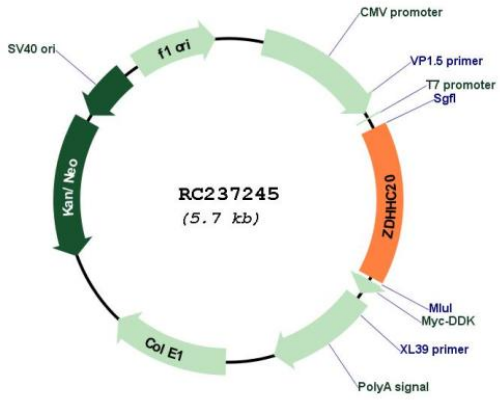
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286638

ORF Size: 876 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_001286638.1, NP_001273567.1
RefSeq Size:	5333 bp
RefSeq ORF:	879 bp
Locus ID:	253832
UniProt ID:	Q5W0Z9
Cytogenetics:	13q12.11
Protein Families:	Transmembrane
MW:	34.2 kDa
Gene Summary:	Catalyzes palmitoylation of Cys residues on target proteins (PubMed:27153536, PubMed:29326245). Catalyzes palmitoylation of Cys residues in the cytoplasmic C-terminus of EGFR, and modulates the duration of EGFR signaling by modulating palmitoylation-dependent EGFR internalization and degradation (PubMed:27153536). Has a preference for acyl-CoA with C16 fatty acid chains (PubMed:29326245). Can also utilize acyl-CoA with C14 and C18 fatty acid chains (PubMed:29326245).[UniProtKB/Swiss-Prot Function]