

## Product datasheet for RC215317

### ZDHHC20 (NM\_153251) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC20 (NM_153251) 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:	>RC215317 representing NM_153251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGCCCTGGACGCTGTGGCGCTGTGCCAGCGCGTCGTGGGCTGGGTGCCGGTGTCTTTCATCACCT  
TCGTGGTCTGTGGTCTACTACGCGTACGTGGTGGAGCTCTGCGTGTTACTATTTTTGAAATGAAGA  
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AAATCAGGTGTA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215317 representing NM\_153251  
 Red=Cloning site Green=Tags(s)

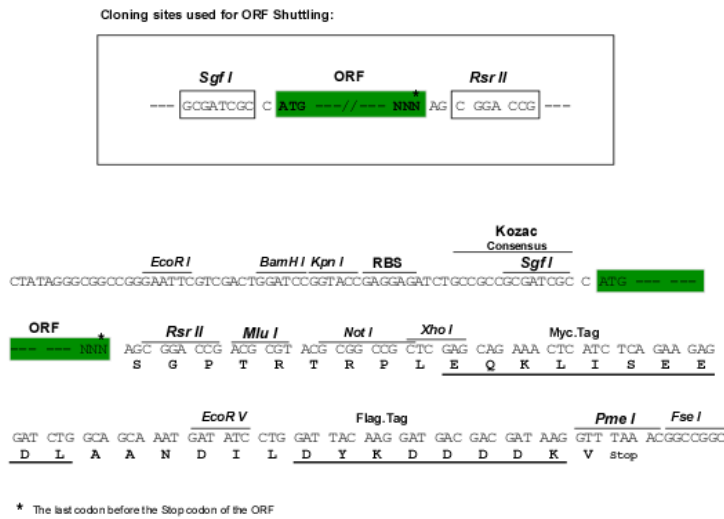
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 LFLFFVSAMFFISVLSLFSYHCWLVGKNRTTIESFRAPTFSYGPDGNFSLGCSKNWRQVFGDEKKYWLL  
 PIFSSLGDGCSFPTRLVGMDEQASVTNQNEYARSGSNQPFPIKPLSESKNRLLDSESQWLENGAEEGIV  
 KSGV

SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

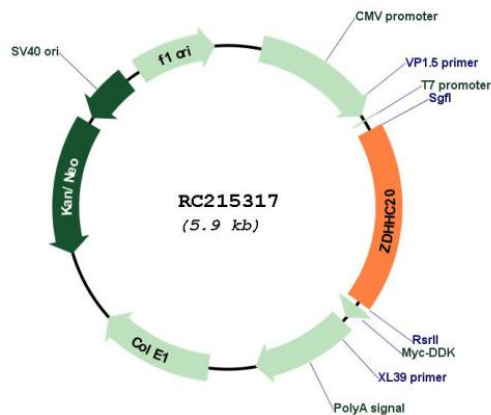
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1291\\_g01.zip](https://cdn.origene.com/chromatograms/ja1291_g01.zip)

**Restriction Sites:** SgfI-RsrII

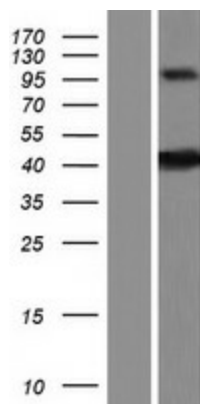
**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_153251
<b>ORF Size:</b>	1062 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153251.3</a> , <a href="#">NP_694983.2</a>
<b>RefSeq Size:</b>	1514 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	253832
<b>UniProt ID:</b>	<a href="#">Q5W0Z9</a>
<b>Cytogenetics:</b>	13q12.11
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	40.9 kDa
<b>Gene Summary:</b>	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]

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY407166]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215317 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).