

## Product datasheet for **RC221741**

### ZDHHC19 (NM\_001039617) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ZDHHC19 (NM\_001039617) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ZDHHC19  
**Synonyms:** DHHC19  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC221741 representing NM\_001039617  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACACTCTTAACGGATGCCACGCCGCTGGTGAAGGAGCCCCATCCCCTGCCTCTGGTCCCACGTCCTT  
 GGTTCCCTCCCTAGCCTCTTTGCTGCCTCAATGTGGTGTCTGGTCTTTTTTCAGTGGCCTCTTCTTCGC  
 ATCCCTTGCAGGTGGCTGGCTCAGAACGGGAGTGGCCTTTCCTGTTATCACAGGCTCCCTCTTTGTC  
 CTTACCTTCTCAGTCTGTTTCACTCAACTTCTCAGACCCTGGCATCTACATCAAGGCTCCGCTGAGC  
 AGGGCCCTTGACGGTGCACGTGGTGTGGTGAACCACGGGGCCTCCGCCTGCAATGGTGTCAAAGTG  
 CTGCTTCCACCGCCCGCCCGGACTTACCACTGCCCTGGTGCAACATCTGTGTGGAGGACTTTGACCAC  
 CACTGCAAGTGGGTCAATAAAGTGCATCGGTCACCGCAACTTCCGCTTCTCATGTGCTTGTCTGTCCC  
 TGTGCCTACTCGGGGCCATGCTGGTCACTGTCTCATCTTCTGGTGCACAAACCCACCTGCCCTT  
 CTCCACCGACAAGGCCATCGCCATCGTGGTGGCCGTGCCGCCGGGCCCTCCTGGTGCCGCTGTCCCTC  
 CTGCTGTGATCCAGGCACTGTCCGTGAGCTCGGCCGACCGCACCTACAAGGGCAAGTGCAGACACCTTC  
 AGGGATAACAACCCCTTCGACCAGGGCTGTGCCAGCAACTGGTATTTAACAATTTGTGCACCACTGGGACC  
 CAAGTACATGGCTGAAGCTGTCCAGTGCAGAGAGTGGTGGGGCCTGACTGGACATCCATGCCGAATCTG  
 CACCCTCAATGTCCCCTCTGCTCTCAACCCCGAGCCCAACCTCTGGGTCCCTACAAAGCAGGGAAG  
 GGACCCCGGGGCGTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC221741 representing NM\_001039617  
Red=Cloning site Green=Tags(s)

MTLLTDATPLVKEPHPLPLVPRPWFLPSLFAAFNVVLLVFFSGLFFAFPCRWLAQNGEWAFWPVITGSLFV  
 LTFFSLVSLNFSDPGILHQGSAEQGPLTVHVWVNHGAFRLQWCPKCCFHRPPRTYHCPWCNICVEDFDH  
 HCKWVNNCIGHRNFRFFMLLVLSLCLYSGAMLVTCLIFLVRTTHLPFSTDKAIIVVAVSAAGLLVPLSL  
 LLLLIQALSVSSADRITYKGKCRHLQGYNPFQGCCASNWYL TICAPLGPKYMAEAVQLQRVVGPDWTSMPNL  
 HPPMSPSALNPPAPTSGSLQSREGTPGAW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8005\\_a06.zip](https://cdn.origene.com/chromatograms/mk8005_a06.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\_001039617

**ORF Size:** 927 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\\_001039617.2](#)

**RefSeq Size:** 1370 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 131540

**UniProt ID:** [Q8WVZ1](#)

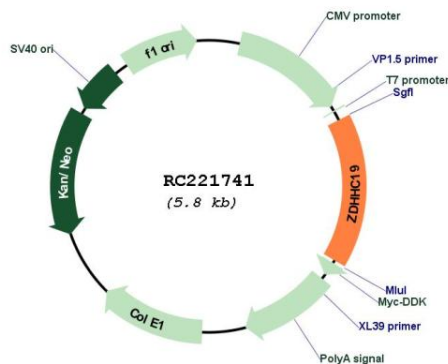
**Cytogenetics:** 3q29

**Protein Families:** Transmembrane

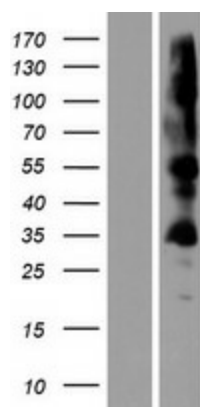
**MW:** 34.2 kDa

**Gene Summary:** Palmitoyltransferase that mediates palmitoylation of STAT3 and RRAS (PubMed:31462771, PubMed:20074548). Palmitoylation of STAT3 induces the homodimerization and transcriptional activation of STAT3, thereby, promoting inflammation and cancer (PubMed:31462771). Palmitoylation of RRAS is linked to cell viability (PubMed:20074548). May be involved in S-stearoylation of STAT3 (Probable).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC221741



Western blot validation of overexpression lysate (Cat# [LY422093]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221741 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).