

## Product datasheet for RC207295

### ZDHHC21 (NM\_178566) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZDHHC21 (NM_178566) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZDHHC21
Synonyms:	DHHC-21; DHHC21; DNZ1; HSPC097
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207295 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTCTCCGGATTCACITTTGTTGTTGACCCACATGGTTGGTGCTGCATGGGTTTGATTGTCTTTGTTT  
GGTTATACAATATTGTTTTAATCCCAAATTGCCTCTTTCCTCACTATGAAGAAGGACATATCCAGG  
CATATTAATAATAATATTCTATGGCATTCCATATTCTGTCTGGTTGCCTTAGTGAGGCGCTCCATAACT  
GATCCAGGAAGACTCCCTGAGAACCCCAAGATCCACATGGAGAAAGGGAGTTCTGGGAATTATGTAACA  
AGTGTAATTTGATGAGACCAAAGCGTCCCATCACTGCAGCCGCTGCGGCCACTGTGTGAGGAGAATGGA  
TCATCACTGTCCATGGATTAACAATTGTGTTGGTGAAGATAATCATTGGCTCTTCTGCAGTTGTGTTTC  
TACACTGAACTTCTTACTTGCTACGCACTGATGTTTTCTTCTGCCACTATTACTATTTCTTCCACTAA  
AAAAGCGTAATTTGGACCTCTTTGTTTTAGACATGAATTGGCCATAATGAGACTAGCAGCCTTTATGGG  
CATTACTATGTTAGTTGGAATAACTGGACTCTTTTACACTCAACTAATTGGCATCATCACAGATACAACA  
TCTATTGAAAAGATGTCAAAGTGTGGAAGATATCGAGGCCCGAAAGCCATGGCAGCAGACCTTCT  
CAGAAGTTTTGGCACTCGTTGGAAGATCCTGTGGTTCATTCTTTCAGGCAGAGGCAACCACTGCGAGT  
TCCCTACCACTTTGCCAATCATGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC207295 protein sequence  
Red=Cloning site Green=Tags(s)

MGLRIHFVVDPHGWCCMGLIVFVWLYNIVLIPKIVLFPHYEEGHIPGILIIIFYGISIFCLVALVRASIT  
 DPGRLPENPKIPHGEREFWELCNKCNLMRPKRSHHCSRGCVCVRRMDHHCWPINNCVGEDNHWLFLQLCF  
 YTELLTCYALMFSFCHYYYFLPLKRNLDLFVFRHELAIMRLAAFMGITMLVGITGLFYTLIGIITDTT  
 SIEKMSNCCEDI SRPRKPWQTFSEVFGTRWKILWFI PFRQRQPLRVPHYFANHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6339\\_a11.zip](https://cdn.origene.com/chromatograms/mk6339_a11.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\_178566

**ORF Size:** 795 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\\_178566.3](#)

**RefSeq Size:** 9171 bp

**RefSeq ORF:** 798 bp

**Locus ID:** 340481

**UniProt ID:** [Q8IVQ6](#)

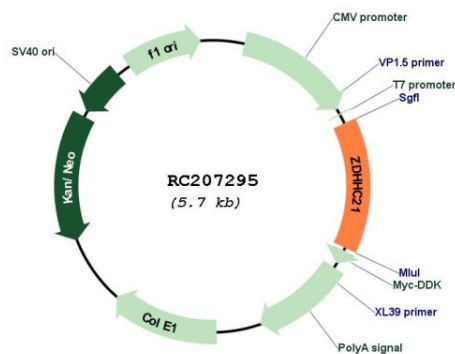
**Cytogenetics:** 9p22.3

**Protein Families:** Transmembrane

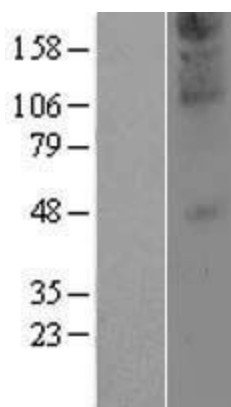
**MW:** 31.4 kDa

**Gene Summary:** Palmitoylates sex steroid hormone receptors, including ESR1, PGR and AR, thereby regulating their targeting to the plasma membrane. This affects rapid intracellular signaling by sex hormones via ERK and AKT kinases and the generation of cAMP, but does not affect that mediated by their nuclear receptor (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC207295



Western blot validation of overexpression lysate (Cat# [LY405870]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207295 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).