

Product datasheet for **RG207295**

ZDHHC21 (NM_178566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZDHHC21
Synonyms:	DHHC-21; DHHC21; DNZ1; HSPC097
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207295 representing NM_178566
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTCTCCGATTCACTTTGTTGTTGACCCACATGGTTGGTGCTGCATGGGTTTGATTGTCTTTGTTT
GGTTATACAATATTGTTTAAATCCCAAATTTGCCTCTTTCCTCACTATGAAGAAGGACATATTCCAGG
CATATTAATAATAATATTCTATGGCATTTCATATTCTGTCTGGTTGCCTTAGTGAGGGCCTCCATAACT
GATCCAGGAAGACTCCCTGAGAACCCCAAGATCCACATGGAGAAAGGGAGTTCTGGGAATTATGTAACA
AGTGTAATTTGATGAGACCAAAGCGTTCCCATCACTGCAGCCGCTGCGGCCACTGTGTGAGGAGAATGGA
TCATCACTGTCCATGGATTAACAATTGTGTTGGTGAAGATAATCATTGGCTCTTCTGCAGTTGTGTTTC
TACACTGAACCTTCTACTTGCTACGCACTGATGTTTTCTTCTGCCACTATTACTATTTTCTTCCACTAA
AAAAGCGTAATTTGGACCTCTTTGTTTTAGACATGAATTGGCCATAATGAGACTAGCAGCCTTTATGGG
CATTACTATGTTAGTTGGAATAACTGGACTCTTTTACACTCACTAATTGGCATCATCACAGATACAACA
TCTATTGAAAAGATGTCAAACCTGTTGTGAAGATATATCGAGGCCCGGAAAGCCATGGCAGCAGACCTTCT
CAGAAGTTTTTGGCACTCGTTGGAAGATCCTGTGGTTCACTTCTTTCAGGCAGAGGCAACCACTGCGAGT
TCCCTACCACTTTGCCAATCATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG207295 representing NM_178566
 Red=Cloning site Green=Tags(s)

MGLRIHFVVDPHGWCCMGLIVFVWLYNIVLIPKIVLFPHYEEGHIPGILIIIFYGISIFCLVALVRASIT
 DPGRLPENPKIPHGEREFWELCNKCNLMRPKRSHHCSRCHCVRRMDHHCPCWINNCVGEDNHWLFLQLCF
 YTELLTCYALMFSFCHYYFLPLKKRNLDFVFRHELAIMRLAAFMGITMLVGITGLFYTQLIGIITDTT
 SIEKMSNCCEDISRPRKPWQQTSEVFGTRWKILWIFPRQRQPLRVPHYFANHV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178566

ORF Size: 795 bp

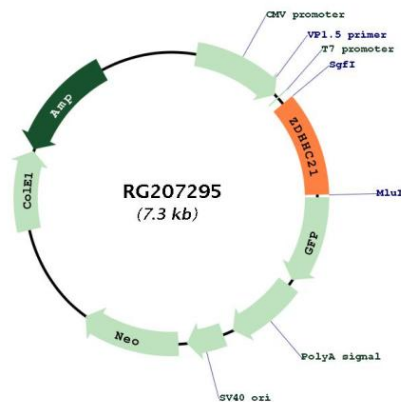
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_178566.3</u>
RefSeq Size:	3267 bp
RefSeq ORF:	798 bp
Locus ID:	340481
UniProt ID:	<u>Q8IVQ6</u>
Cytogenetics:	9p22.3
Protein Families:	Transmembrane
Gene Summary:	Palmitoylates sex steroid hormone receptors, including ESRI, 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 RG207295