

## Product datasheet for MR203515

### Zdhhc21 (NM\_026647) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Zdhhc21 (NM\_026647) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Zdhhc21  
**Synonyms:** 9130404H11Rik; AL024349; D130004H04Rik; dep  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR203515 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCTTCGGATTCACCTTTGTTGTTGACCCGCATGGTTGGTGCTGCATGGGCTTGATTGTCTTTGTCT  
 GGTTATACAATATTGTTATAATCCCAAATTGCCTCTTTCCTCACTATGAAGAAGGACATATTCCTGG  
 CATTTTAATAATAATATTCTATGGCATTCCATATTTGCCTGGTTGCCTTAGTGAGGGCCTCCTAACT  
 GATCCTGGAAGACTCCCTGAAAATCCCAAGATCCACATGCAGAGCGGGAGCTGTGGGAGCTCTGCAACA  
 AGTGCAACCTGATGAGGCCGAAGCGCTCCCACCACTGCAGCCGCTGCGGCCACTGCGTCAGGAGGATGGA  
 CCATCACTGTCCCTGGATAAACAATTGTGTGGGTGAAGACAACCATGGCTCTTCTGCAGTTGTGTTTC  
 TACACTGAGCTGCTTACTTGCTACGCACTGATGTTTTCTTCTGCCATTATTATTATTTCTTCCACTAA  
 AAAAGCGTAACCTGGATCTCTTTGTTGTTGCGCCATGAGCTGGCTATCATGAGACTAGCTGCCTTCATGGG  
 CATCACTATGTTAGTTGGAATAACTGGACTCTTCTATACAACTGATTGGCATCATCACAGATACAACA  
 TCTATTGAAAAATGTCAAATTGTTGTGAAGAAATATCGCGGCCCGAAAGCCATGGCAGCAGACCTTCT  
 CAGAAGTTTTGGCACTCGTTGGAAGATCCTGTGGTTCATTCTTTCAGGCAGCGCAACCACTGCGAGT  
 TCCCTACCACTTTGCCAATCACGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203515 protein sequence  
 Red=Cloning site Green=Tags(s)

MGLRIHFVVDPHGWCCMGLIVFVWLYNIVIIPKIVLFPHYEEGHIPGILIIIFYGISIFCLVALVRASLT  
 DPGRLPENPKIPHAERELWELCNKCNLMRPKRSHHC SRCGHCVRRMDHHC PWINNCVGEDNHWLFLQLCF  
 YTELLTCYALMFSFCHYYYFLPLKRNLDLFVVRHELAIMRLAAFMTMLVGITGLFYTQLIGIITDTT  
 SIEKMSNCCEEISRPRKPWQQTSEVFGTRWKILWFIPFRQRQPLRVPYHFANHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026647

**ORF Size:** 798 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\\_026647.4](#)

**RefSeq Size:** 8751 bp

**RefSeq ORF:** 798 bp

**Locus ID:** 68268

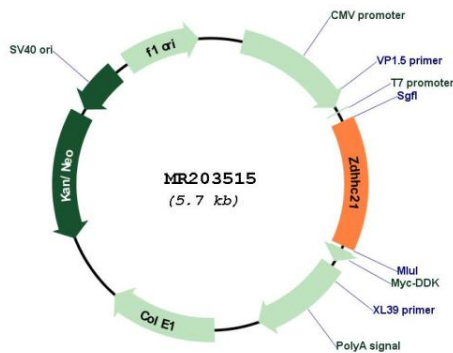
**UniProt ID:** [Q9D270](#)

**Cytogenetics:** 4 C3

**MW:** 31.3 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 MR203515