

## Product datasheet for **MG203536**

### Zdhhc12 (BC021432) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Zdhhc12 (BC021432) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Zdhhc12  
**Synonyms:** 1190004A01Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203536 representing BC021432  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTTTGGCCGCGCTTAACCTCTGGGATGCTGGTGCAGACTGGGCACACCGTGTGACCTGGGGAA  
 TCACTCTGGTGTCTTCTGCACGACACCGAGCTACGCCAATGGGAAGAGCAAGGGGAGCTGCTCCTGCC  
 CCTCACATTCCTGCTCCTGGTGTAAAGCTCCCTGCTGCTTATCTGGCTGTGCTACTCATGGACCCCGC  
 TATGTGACTACTCAGCCAGCCTCAGGGCGAGCCCAAGGAGAACAGGCAGCCATGTTTCTCAGGCC  
 TCCCACTCGGGCGCTGCAGACACTGTCTGGTGTGCTGACGCCCTGCGTGCCGGCACTGTCTGATTGCCG  
 CCGCTGTGTTTCGGCGCTATGATCACCAGTCCCTGGATGGAGAAGTGTGTGGTGAACGCAACCAACCCG  
 CTCTTTGTGGCCTACCTGGCACTGCAGCTGGTAGTTCTGCTGTGGGGCCTGTGCCTGGCATGGTCTGGCC  
 TTCAGTCTTCCAGCCCTGGGGGCTGTGGCTCCGGTCCACTGGGCTCCTGTTACCACTTCTCTGCTGCT  
 CTCCTTCTTCGCGTTAGTGGTTGCCCTGCTCCTGGCCTCCCACTTACCTGGTACCCAGGAACACGACT  
 ACCTGGGAGTTCATATCTTACACCGAATCGCCTACCTCCGCCAGCGCACCAGCAACCCCTTTGACCGAG  
 GGCCGACTCGAAACCTGGCCACTTTTTCTGTGGTTGGCCCTCTGGGCCCTGGGAGACTCTCTCGGCTGA  
 GGAAGAGGAAGAAGGCAGCAGCCAGTTGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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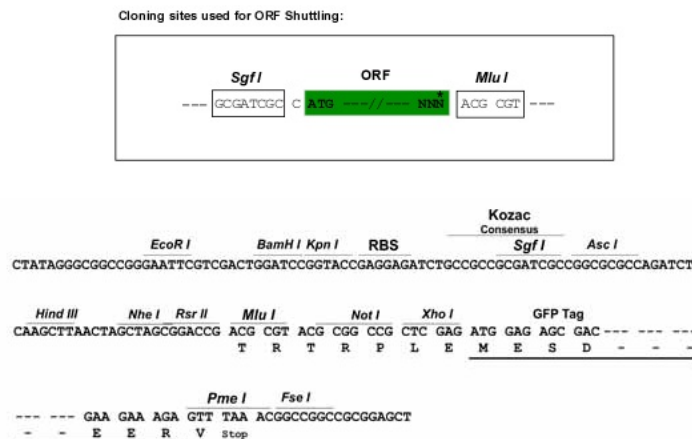
**Protein Sequence:** >MG203536 representing BC021432  
 Red=Cloning site Green=Tags(s)

MALWPPLNSGMLVRTGHTVLTWGITLVFLHDTLRQWEEQGELLLPLTFLLLVLSSLLLYLAVSLMDPG  
 YVTTQPQPQGEKKEEAAMVPQAVPLRRCRHLVLQPLRARHCRDCRRCVRRYDHHCPWMENCVGERNHP  
 LRVAYLALQLVLLWGLCLAWSGLQFFQPWGLWLRSTGLLFTTFLLLSFFALVVALLLASHLYLVARNTT  
 TWEFISSHRIAYLRQRTSNPFD RGPTRNLAHFFCGWPSGPWETLSAE EEEEGSSQVV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC021432

**ORF Size:** 803 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:** [BC021432](#), [AAH21432](#)

**RefSeq Size:** 1148 bp

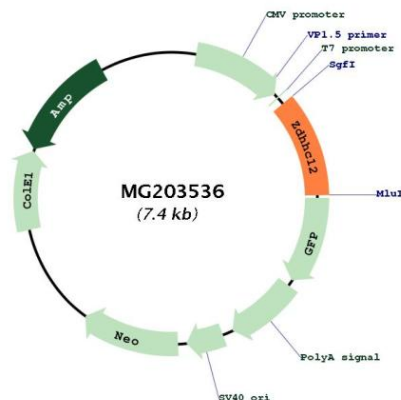
**RefSeq ORF:** 803 bp

**Locus ID:** 66220

**Cytogenetics:** 2 B

**Gene Summary:** Palmitoyltransferase that could catalyze the addition of palmitate onto various protein substrates (PubMed:25025157). Has a palmitoyltransferase activity toward gephyrin/GPHN, regulating its clustering at synapses and its function in gamma-aminobutyric acid receptor clustering (PubMed:25025157). Thereby, indirectly regulates GABAergic synaptic transmission (PubMed:25025157).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG203536