

## Product datasheet for **MG217595**

### Fzd10 (NM\_175284) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd10 (NM_175284) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fzd10
Synonyms:	Fz-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG217595 representing NM\_175284  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAACACCCGGGCCCGCCCTGTGGTTGGTGTGCAGGTGATGATAGGCTCGTGCACGGCCATCAGT  
 CCATGGACTTAGAGCGCCTGGAGACGGCAAGTGCAGCCGGTGGAGATCCCATGTGCAAGGACATCGG  
 CTAACAACACCCCGCATGCCAACCTGATGGGTACGAGAACCAGCGGAGCGGCCATCCAACCTGCAC  
 GAGTTCGCGCCGCTCGTGGAGTACGGTCCACAGCCACCTTCGTTCTTCTGTGTTTCGCTGTACGCGC  
 CCATGTGCACCGAGCAGGTCTCCACACCCATCCCTGCTTGCCGGGTATGTGCGAGCAGGCCCGGCTCAA  
 GTGCTCGCCGATCATGGAGCAGTTCAAATTCAGGTGGCCGGACTCCCTGGATTGCAGCAAGCTCCCCAAC  
 AAGAACGACCCCAACTACCTGTGCATGGAGGCACCAACAACGGCTCGGATGAGCCAGCCGGGGCTCTG  
 GCATGTTTCTCCGCTCTTCAGGCCCCAGAGGCCACAGCGCGCAGGAGCACCCACTAAGGACGGGGG  
 TCCGGGGCGCGCAGGTTGTGACAACCCAGGCAAGTTCCACCATGTGGAGAAGAGCGAATCTTGCGCACCG  
 CTTTGCACCTCCGGGGTGGATGTGATTGGAGCCGCGACGACAAGCGCTTCGCTGTGGTCTGGCTGGCCA  
 TCTGGTCCGTGTGCTTCTTCTCCAGCGCCTTACCCTGTCTACCTTCTCATCGACCCATCGCGCTT  
 CAGGTACCCCGAACGTCCTATCATCTTCTCTCCATGTGCTACTGCGTTTATTCGGTGGGCTATATCATC  
 CGCCTTTCGCGGGCGCGGAGAGCATCGCTTGTGACCGGGACAGTGGGCAGCTGTATGTTATCCAGGAAG  
 GACTGGAGAGCACGGGCTGTACCTTAGTCTTCTTGGTACTTTACTACTTCGGCATGGCCAGCTCTTTATG  
 GTGGTGGTCTCACCTCACTTGGTTCCTGGCTGCTGAAAGAAGTGGGGCCATGAGGCCATTGAAGCC  
 AACAGCAGCTACTTTCACCTGGCAGCTTGGGCCATCCCGGCTGTGAAGACTATCTTGATCTTGGTATGC  
 GCAGGGTGGCAGGGGATGAGCTCACTGGTGTGTTATGTGGGCAGCATGGATGTCAATGCTCTGACCGG  
 CTTCTGTGCTGGTCCCGCTGGCTTGTCTACCTAGTACATCGGCACTTCTTTCATCCTGTCCGGCTTGTGGCT  
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 CCTCAACATGGACTACTGGAAGATGCTGGCCACCCAGCACAAGTGAAGATGAACAATCAGACCAAGACA  
 CCTGACTGCCTGATGACCACCTCCATCCCTGCCGTGGAGGTCTTCATGGTCAAAGTGTCCATGCTGCTGG  
 TGGTGGGCATCACCAGTGGGGTGTGGTCTGGACTTCCAAGACCTGCAGTCTGGCAACACGTATGCAG  
 CCGGGGGCTAAAGAGAAAAAGCCGGAGGAAACCAGCCAGTGTGGTACCAGTGCAGGGATCTACAAAAA  
 GCCCAGCACCCCAAAAACCTCACCTTGGGAAGTATGAACTGCCGCCCCAGCCTTACGCCTGCGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG217595 representing NM\_175284  
 Red=Cloning site Green=Tags(s)

MQHPGPRLLVVLQVMIGSCTAIISSMDLERPGDGKQPVEIPMCKDIGYNTTRMPNLMGHENQREAAIQLH  
 EFAPLVEYGCHSLRFFLCSLYAPMCTEQVSTPIACRMCEQARLKCSPIMEQFKFRWPDSDLDCSKLPN  
 KNDPNYLCMEAPNNGSDEPSRSGMFPPLFRPQRPHSAQEHLKDGPGRAGCDNPGKFHHVEKSESCAP  
 LCTPGVDVYWSRDDKRFVAVWLAIWSVLCFFSSAFTVLTFLIDPSRFRYPERPIIFLSMCYCVYVGVYII  
 RLFAGAESIACDRDSGQLYVIQEGLESTGCTLVFLVLYYFGMASSLWWWVLTWFLAAGKKWGHEAIEA  
 NSSYFHAAAWAIPAVKTIILILVMRRVAGDELTVGCYVGSMDVNALTGFLVPLACYLVIGTSFILSGFVA  
 LFHIRRVMKTGGENTDKLEKLMVRIGVFSLLYTVPATCVIACYFYERLNDYWKMLATQHKCKMNNQTKT  
 PDCLMTTSIPAVEVFMVKVSMMLLVVIGITSGVWVWTSKTLQSWQHVC SRGLKRKSRRPASVVTSAGIYKK  
 AQHPQKPHLQKYLPAQPSACV

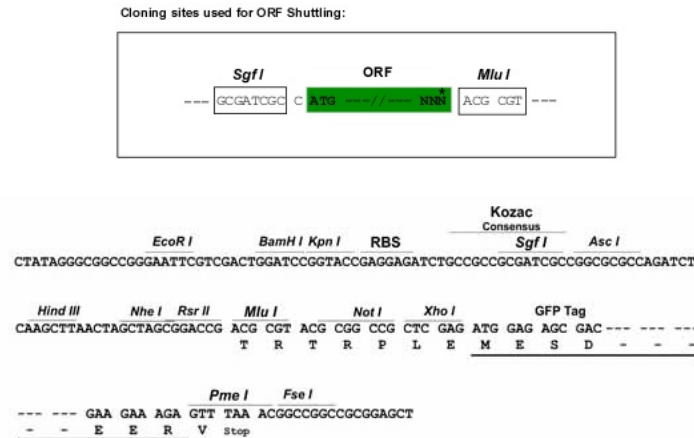
**TRTRPLE** - GFP Tag - V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2153\\_a09.zip](https://cdn.origene.com/chromatograms/ja2153_a09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_175284

**ORF Size:** 1746 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

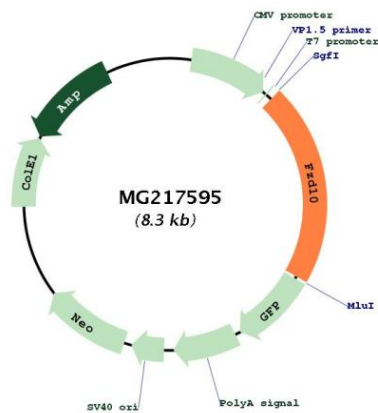
**Reconstitution Method:**

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\\_175284.3, NP\\_780493.1](#)  
**RefSeq Size:** 3005 bp  
**RefSeq ORF:** 1749 bp  
**Locus ID:** 93897  
**UniProt ID:** [Q8BKG4](#)  
**Cytogenetics:** 5 G1.3

**Gene Summary:** Receptor for Wnt proteins (PubMed:15923619). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:15923619). The canonical Wnt/beta-catenin signaling pathway leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues (Probable).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217595