

## Product datasheet for **MG208974**

### **Fzd2 (NM\_020510) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fzd2 (NM_020510) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fzd2
Synonyms:	AL033370; AW456835; Fz10; Fzd10; Mfz10; Mfz10a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208974 representing NM\_020510  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGGCCCGCAGCGCCCTGCCCGCAGCGCCCTGCCCGCCTGCTGCTGCCACTGCTGCTGCTGCCGG  
 CCGCCGACCGGCCAGTTCCACGGGGAGAAGGGCATCTCCATCCCGACCACGGCTTCTGCCAGCCAT  
 CTCCATCCCGCTGTGCACGGACATCGCCTACAACCAGACCATCATGCCAACCTTCTTGCCACACGAAC  
 CAGGAAGACGCGGGCCTGGAGGTGCATCAGTTCTACCGCTGGTGAAGGTGCAGTCTCGCCGAGCTGC  
 GCTTCTTCTGTGCTCCATGTACGCGCCGGTGTGCACAGTGTGGAGCAGGCCATCCCGCGTGCCGCTC  
 CATCTGCGAGCGCGCGCAAGGCTGCGAGGCGCTCATGAACAAGTTCGGTTCGAATGGCCGAGCGC  
 CTCGCTGCGAGCATTTCCCGCTCACGGCGGGAGCAGATCTGCGTGGCCAGAACCACTCGGAGGACG  
 GAGCTCCTGCGCTACTCACCGCGCCACCTTCTGGGCTGCAGCCGGCGGGTGGCACCCCGGGCGG  
 CCCTGGCGGTGGTGGCTGCCACCGGTTACGCCACTCTGGAGCACCTTCCACTGTCCCGCGTCCCTC  
 AAGGTGCCGTCTATCTCAGCTATAAGTTTCTGGGTGAGCGGATTTGTCGCGCCCTGCGAGCCCGCAC  
 GGCCCGACGGCTCTATGTTCTTCTCGCAAGAGGAGACTCGTTTTGCCCGTCTCTGGATCCTCACATGGTC  
 GGTGTTGTGCTGCGCTTCCACTTTCTTACGGTACCACCTATTTAGTGGACATGACGCGATTTGCTAC  
 CCAGAGCGGCCATCATCTTTCTGTCCGGCTGCTACCATGGTGTCACTGGCCTACATTGCGGGCTTCG  
 TTCTCCAGGAGCGGTGGTATGCAATGAGCGCTTCTCAGAGGACGGTTATCGCACGGTGGTGCAGGGCAC  
 TAAGAAAGAAGGCTGCACTATACTTTCATGATGCTCTACTTCTCAGCATGGCCAGCTCCATCTGGTGG  
 GTGATTCTGTCCCTCACCTGGTTCTGGCAGCCGGAATGAAGTGGGGCCACGAGGCCATCGAGGCCAATT  
 CGCAGTACTTCCACTGGCCGCTGGCCGCTGCCGCGCTCAAACCATCACCATCTTGGCCATGGGCCA  
 GATCGACGGCGACCTGCTGAGCGCGTGTGCTTGGTGGGCTCAATAGCCTGGACCCGCTGCGGGGCTTC  
 GTGCTGGCGCGCTCTTCTGATACCTGTTTCATCGGTACATCCTTCTGCTGGCCGCTTCTGTGCTACTCT  
 TCCGCATCCGACCATCATGAAGCACGACGGCACCAAGACGGAGAAGCTGGAGAGGCTCATGGTGCAT  
 TGGCGTCTTCTGGTGTCTACACGGTACCGCCACCATCGTATCGCCTGCTACTTCTATGAGCAGGCC  
 TTCCGCGAGCACTGGGAGCGCTCTGGTAAGCCAGCACTGCAAGAGCCTAGCCATCCCTGCCCGGCC  
 ACTACACGCCCGCATGTCGCCGACTTACAGTCTACATGATCAAATACCTCATGACGCTCATCGTGGG  
 CATCACGTGGGCTTCTGGATCTGGTCCGGAAGACACTGCACTCGTGGAGGAAGTCTACACTCGTCTC  
 ACCAACAGCCGGCATGGCGAGACCACTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208974 representing NM\_020510  
 Red=Cloning site Green=Tags(s)

MRARSALPRALSALPRLLLPLLLLPAAGPAQFHGEKGISIPDHGFCQPISIPLCTDIAYNQTIMPNLLGHTN  
 QEDAGLEVHQFYPLVKVQCSPFLRFFLCSMYAPVCTVLEQAIPPCRSICERARQGCEALMNKFGFQWPER  
 LRCEHFPRHGAEQICVGNHSEDGAPALLTTAPPSGLQPGAGGTPGGPGGGSPPRYATLEHPFHCPRLV  
 KVPYSYLYKFLGERDCAAPCEPARPDGSMFFSQEETRFARLWILTWSVLCCASTFFVTYYLVDMQRFY  
 PERPIIFLSGCTMVSVAIYAGFVLQERVVCNERFSEDGYRTVVQGTKEGCTILFMMLYFFSMASIIWW  
 VILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKITITILAMQIDGDLISGCVFVGLNSLDPLRGF  
 VLAPLFFVYLFIGTSFLLAGFVSLFRIRTIMKHDGKTEKLERLMVRIGVFSVLYTVPATIVIACYFYEQA  
 FREHWERSWVSQHCKSLAIPCPAHYTPRMSPDFTVYMIKYLMTLIVGITSGFWIWSGKTLHSWRKFYTRL  
 TNSRHGETTV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_020510

**ORF Size:** 1710 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\\_020510.2](#), [NP\\_065256.1](#)

**RefSeq Size:** 3628 bp

**RefSeq ORF:** 1713 bp

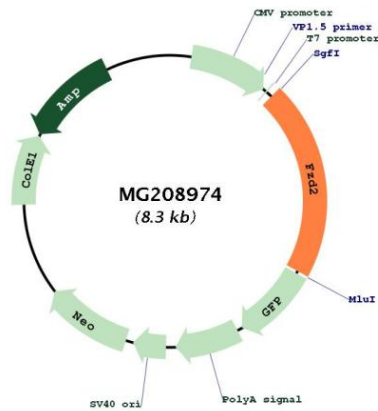
**Locus ID:** 57265

**UniProt ID:** [Q9JIP6](#)

**Cytogenetics:** 11 E1

**Gene Summary:**

Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which 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.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MG208974