

Product datasheet for **MC228382**

Fzd5 (NM_001042659) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd5 (NM_001042659) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fzd5
Synonyms:	5330434N09Rik; AI427138; Fz-5; Fz5; mFz5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228382 representing NM_001042659
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCGACCCGACCCGCTGCGCCTCCCTCTTCTGTGCTGTTGCTGGCGCAGCTGGTGGCCGGG
 CAGCGGCCGCCTCCAAGGCCCGGTGTGCCAGGAAATCACGGTGCCCATGTGCCGAGGCATCGGCTACAA
 CCTGACGCACATGCCCAACCAAGTTCAACCATGACACGCAGGACGAAGCAGGCCTGGAGGTGCACCAATTC
 TGGCCGCTTGTGGAGATCCACTGCTCACCGACCTGCGCTTCTTCTGTGCTCTATGTACACGCCCATCT
 GTTTGCCGACTACCACAAGCCGCTACCACCGTCCGTTCCGTGTGCGAGCGGCCAAGGCCGGTCTC
 GCCGCTCATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCGACCGCCTCCCTGTGCTGGG
 GGGCAGCGCGAGGTTCTGTGATGGATTATAACCGAAGCGAAGCCACCACCGCTCCCTAAGTCCTTCC
 CGGCCAAACCTACTCCAGGACCACCAGGGGGCCATCTTCCGGGGGCGAGTGCCCTCGGGAGGCC
 ATCCGTGTGCACGTGCCCGAGCCCTTCGTGCCATCCTGAAGGAGTACACCCACTCTACAACAAGGTG
 CGACCCGCCAAGTGCCCAACTGCGCGGTGCCCTGCTACCAGCCGCTTCAGCCCGGACGAGCGCACAT
 TCGCCACCTTCTGGATTGGCCTGTGGTCTGTGCTGTGCTTTCATCTCCACGTCCACCACCGTTGCCACCT
 CCTCATTGACATGGAACGATTCCGCTACCTGAGCGCCCATCATCTTCTGTGCTGCGTGTACCTGTGT
 GTGTCACCTGGGATTCTTGGTGGCCTGGTAGTGGGCCATGCCAGCGTCGTTGCAGCCGTGAGCAGACCC
 ACATTCATATGAGACTACCGCCCTGCGCTGTGCACGGTTGTCTTCTTCTTAGTCTATTTCTTTGGCAT
 GGCCAGCTCCATCTGGTGGGTCACTCTGCGTCACTGGTCTTGGCGGCTGGCATGAAGTGGGGCAAT
 GAAGCCATCGCAGGTTATGCACAGTACTCCACCTTGTGCTGGCTCATCCCCAGTGTCAAGTCCATTA
 CGCGCTGGCACTGAGCTCGGTGGACGGGGACCCAGTGGCTGGCATCTGCTATGTGGGCAACCAAACT
 GAATCACTACGAGGCTTGTCTTGGGCCCACTGGTGTGTACCTGTTGGTGGGACGCTCTTCTTCTG
 GAGGCTTCTGTGCTACTCTTCCGCATCCGAGCGTCAAGCAGGGTGGCACTAAGACGGACAAGCTAG
 AGAAGCTCATGATCCGCATCGGCATCTTACCCTGCTCTACACGGTGCCAGCCAGCATCGTGGTGGCCTG
 CTACCTGTATGAGCAGCACTACCGGGAGAGCTGGGAGGCAGCCCTCACCTGCGCGTGTCCGGGACCCGAC
 GCTGGCCAGCCACGCGCCAAACCCGAGTACTGGTGTCTCATGCTCAAGTACTTTCATGTGCTGGTGGTGG
 GCATCACGTCGGGAGTCTGGATCTGGTCCGGCAAGACTCTGGAGTCTTGGCGCGGTTACCAGCCGCTG
 CTGCTGCAGCTCTCGCGGGGCCACAAGAGCGGTGGCGCTATGGCCGAGGAGACTATGCGGAGGCCAGC
 GCCGCGCTCACCGGCAGGACCGGGCCGCTGGCCCAACCGCCGCATACCACAAGCAAGTGTCCCTGTGCG
 ACGTATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001042659
- Insert Size:** 1758 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:	<ol style="list-style-type: none">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:	<u>NM_001042659.1</u> , <u>NP_001036124.1</u>
RefSeq Size:	6823 bp
RefSeq ORF:	1758 bp
Locus ID:	14367
UniProt ID:	<u>Q9EQD0</u>
Cytogenetics:	1 32.74 cM
Gene Summary:	<p>Receptor for Wnt proteins (PubMed:11092808, PubMed:18230341). Can activate WNT2, WNT10B, WNT5A, but not WNT2B or WNT4 (in vitro); the in vivo situation may be different since not all of these are known to be coexpressed (PubMed:11092808). In neurons, activation of WNT7A promotes formation of synapses (By similarity). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:18230341). 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 (PubMed:18230341). 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). Plays a role in yolk sac angiogenesis and in placental vascularization (PubMed:11092808).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>