

Product datasheet for **MC219271**

Fzd5 (NM_022721) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd5 (NM_022721) 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



[View online »](#)

Fully Sequenced ORF: >MC219271 representing NM_022721
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCGACCCGACCCGCTGCGCCTCCCTCTCTTCTGTGCTGTTGCTGGCGCAGCTGGTGGCCGGG
 CAGCGGCCGCCTCCAAGGCCCGGTGTGCCAGGAAATCACGGTGCCCATGTGCCAGGCATCGGCTACAA
 CCTGACGCACATGCCCAACCAAGTTCAACCATGACACGCAGGACGAAGCAGGCCTGGAGGTGCACCAATTC
 TGGCCGCTTGTGGAGATCCACTGCTCACCGACCTGCGCTTCTTCTGTGCTCTATGTACACGCCCATCT
 GTTTGCCGACTACCACAAGCCGCTACCACCGTGCCGTTCCGTGTGCGAGCGGCCAAGGCCGGTCTC
 GCCGCTCATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCGACCGCCTCCCTGTGCTGGG
 GCGCAGCCGAGGTTCTGTGATGGATTATAACCGAAGCGAAGCCACCACCGCTCCCTAAGTCTTTCC
 CGGCCAAACCTACTCCAGGACCACCAGGGCGCCATCTTCCGGGGGCGAGTGCCCTCGGGAGGCC
 ATCCGTGTGCACGTGCCCGAGCCCTTCGTGCCATCCTGAAGGAGTACACCCACTCTACAACAAGGTG
 CGCACCAGCAAGTGCCCAACTGCGCGGTGCCCTGCTACCAGCCGCTCCTCAGCCCGGACGAGCGCACAT
 TCGCCACCTTCTGGATTGGCCTGTGGTCTGTGCTGTGCTTTCATCTCCACGTCCACCACCGTTGCCACCT
 CCTCATTGACATGGAACGATTCCGCTACCTGAGCGCCCCATCATCTTCTGTCTGCGTGTACCTGTGT
 GTGTCACCTGGGATTCTTGGTGGCCTGGTAGTGGGCCATGCCAGCGTCGCTTGCAGCCGTGAGCAGACC
 ACATTCATATGAGACTACCGCCCTGCGCTGTGCACGGTTGTCTTCTTCTTAGTCTATTTCTTTGGCAT
 GGCCAGCTCCATCTGGTGGGTCACTCTGCTGCTCACCTGGTCTTGGCGGCTGGCATGAAGTGGGGCAAT
 GAAGCCATCGCAGGTTATGCACAGTACTCCACCTTGTGCTGGCTCATCCCCAGTGTCAAGTCCATTA
 CGGCGCTGGCACTGAGCTCGGTGGACGGGACCCAGTGGCTGGCATCTGCTATGTGGCAACCAAACT
 GAACACTACTACGAGGCTTTGTCTTGGGCCCACTGGTGTGTACCTGTTGGTGGGACGCTCTTCTTCTG
 GCAGGCTTCGTGTCACTCTTCCGCATCCGAGCGTCATCAAGCAGGGTGGCACTAAGACGGACAAGCTAG
 AGAAGCTCATGATCCGCATCGGCATCTTACCCTGCTCTACACGGTGCCAGCCAGCATCGTGGTGGCCTG
 CTACCTGTATGAGCAGCACTACCGGAGAGCTGGGAGGCAGCCCTCACCTGCGCGTGTCCGGGACCGGAC
 GCTGGCCAGCCACGCGCCAAACCCGAGTACTGGGTGCTCATGCTCAAGTACTTTCATGTGCTGGTGGTGG
 GCATCACGTCGGGAGTCTGGATCTGGTCCGGCAAGACTCTGGAGTCTTGGCGCGGTTACCAGCCGCTG
 CTGCTGCAGCTCTCGGCGGGGCCACAAGAGCGGTGGCGCTATGGCCGAGGAGACTATGCGGAGGCCAGC
 GCCGCGCTCACCGCAGGACCGGGCCGCTGGCCCAACCGCCGCATACCACAAGCAAGTGTCCCTGTGCG
 ACGTATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_022721
- 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).
- 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_022721.3](#), [NP_073558.2](#)

RefSeq Size: 6930 bp

RefSeq ORF: 1758 bp

Locus ID: 14367

UniProt ID: [Q9EQD0](#)

Cytogenetics: 1 32.74 cM

Gene Summary: 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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.