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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCGACCCGACCCGTCTGCGCCTCCCTCTCTTCTGCTGCTGTTGCTGGCGCAGCTGGTGGGCCGGG
CAGCGGCCGCCTCCAAGGCCCCGGTGTGCCAGGAAATCACGGTGCCCATGTGCCGAGGCATCGGCTACAA
CCTGACGCACATGCCCAACCAGTTCAACCATGACACGCAGGACGAAGCAGGCCTGGAGGTGCACCAATTC
TGGCCGCTTGTGGAGATCCACTGCTCACCGGACCTGCGCTTCTTCCTGTGCTCTATGTACACGCCCATCT
GTTTGCCTGACTACCACAAGCCGCTACCACCGTGCCGTTCCGTGTGCGAGCGCGCCAAGGCCGGCTGCTC
GCCGCTCATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCGACCGCCTCCCTGTGCTGGGC
GGCGACGCCGAGGTTCTGTGTATGGATTATAACCGAAGCGAAGCCACCACCGCGTCCCCTAAGTCCTTCC
CGGCCAAACCTACACTCCCAGGACCACCAGGGGCGCCATCTTCCGGGGGCGAGTGCCCCTCGGGAGGCCC
ATCCGTGTGCACGTGCCGCGAGCCCTTCGTGCCCATCCTGAAGGAGTCACACCCACTCTACAACAAGGTG
CGCACCGGCCAAGTGCCCAACTGCGCGGTGCCCTGCTACCAGCCGTCCTTCAGCCCGGACGAGCGCACAT
TCGCCACCTTCTGGATTGGCCTGTGGTCTGTGCTGTGCTTCATCTCCACGTCCACCACCGTTGCCACCTT
CCTCATTGACATGGAACGATTCCGCTACCCTGAGCGCCCCATCATCTTCTTGTCTGCGTGCTACCTGTGT
GTGTCACTGGGATTCTTGGTGCGCCTGGTAGTGGGCCATGCCAGCGTCGCTTGCAGCCGTGAGCACAGCC
ACATTCACTATGAGACTACCGGCCCTGCGCTGTGCACGGTTGTCTTCCTCTTAGTCTATTTCTTTGGCAT
GGCCAGCTCCATCTGGTGGGTCATCCTGTCGCTCACCTGGTTCTTGGCGGCTGGCATGAAGTGGGGCAAT
GAAGCCATCGCAGGTTATGCACAGTACTTCCACCTTGCTGCCTGGCTCATCCCCAGTGTCAAGTCCATTA
CGGCGCTGGCACTGAGCTCGGTGGACGGGGACCCAGTGGCTGGCATCTGCTATGTGGGCAACCAAAACCT
GAACTCACTACGAGGCTTTGTCTTGGGCCCACTGGTGCTGTACCTGTTGGTGGGCACGCTCTTCCTTCTG
GCAGGCTTCGTGTCACTCTTCCGCATCCGGAGCGTCATCAAGCAGGGTGGCACTAAGACGGACAAGCTAG
AGAAGCTCATGATCCGCATCGGCATCTTCACCCTGCTCTACACGGTGCCAGCCAGCATCGTGGTGGCCTG
CTACCTGTATGAGCAGCACTACCGGGAGAGCTGGGAGGCAGCCCTCACCTGCGCGTGTCCGGGACCGGAC
GCTGGCCAGCCACGCGCCAAACCCGAGTACTGGGTGCTCATGCTCAAGTACTTCATGTGCCTGGTGGTGG
GCATCACGTCGGGAGTCTGGATCTGGTCCGGCAAGACTCTGGAGTCTTGGCGGCGGTTCACCAGCCGCTG
CTGCTGCAGCTCTCGGCGGGGCCACAAGAGCGGTGGCGCTATGGCCGCAGGAGACTATGCGGAGGCCAGC
GCCGCGCTCACCGGCAGGACCGGGCCGCCTGGCCCCACCGCCGCATACCACAAGCAAGTGTCCCTGTCGC
ACGTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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_001042659.1, NP_001036124.1
RefSeq Size:	6823 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 (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.

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