

Product datasheet for **MG226069**

Fzd5 (NM_022721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd5 (NM_022721) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fzd5
Synonyms:	5330434N09Rik; AI427138; Fz-5; Fz5; mFz5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226069 representing NM_022721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCGACCCGACCCGCTGCGCCTCCCTCTCTTCTGTGCTGTTGCTGGCGCAGCTGGTGGCCGGG
 CAGCGGCCGCCTCCAAGGCCCGGTGTGCCAGGAAATCACGGTGCCCATGTGCCAGGCATCGGCTACAA
 CCTGACGCACATGCCCAACCAGTTCAACCATGACACGCAGGACGAAGCAGGCCTGGAGGTGCACCAATTC
 TGGCCGCTTGTGGAGATCCACTGCTCACCGACCTGCGCTTCTTCTGTGCTCTATGTACACGCCCATCT
 GTTTGCCGACTACCACAAGCCGCTACCACCGTCCGTTCCGTGTGCGAGCGGCCAAGGCCGGTCTC
 GCCGCTCATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCGACCGCCTCCCTGTGCTGGG
 GCGCAGCCGAGGTTCTGTGATGGATTATAACCGAAGCGAAGCCACCACCGCTCCCTAAGTCCTTCC
 CGGCCAAACCTACTCCAGGACCACCAGGGCGCCATCTCCGGGGGCGAGTGCCCTCGGGAGGCC
 ATCCGTGTGCACGTGCCCGAGCCCTTCGTGCCATCCTGAAGGAGTACACCCACTCTACAACAAGGTG
 CGCACCAGCAAGTGCCCAACTGCGCGGTGCCCTGCTACCAGCCGTCCTCCAGCCCGGACGAGCGCACAT
 TCGCCACCTTCTGGATTGGCCTGTGGTCTGTGCTGTGCTTTCATCTCCACGTCCACCACCGTTGCCACCT
 CCTCATTGACATGGAACGATTCCGCTACCTGAGCGCCCATCATCTTCTGTGCTGCGTGTACCTGTGT
 GTGCTACTGGGATTCTTGGTGGCCTGGTAGTGGGCCATGCCAGCGTCGTTGCAGCCGTGAGCAGACCC
 ACATTCATATGAGACTACCGCCCTGCGCTGTGCACGGTTGTCTTCTTCTTAGTCTATTTCTTTGGCAT
 GGCCAGCTCCATCTGGTGGGTATCCTGTGCTCACCTGGTCTTGGCGGCTGGCATGAAGTGGGGCAAT
 GAAGCCATCGCAGTTATGCACAGTACTCCACCTTGTGCTGCGCTCATCCCCAGTGTCAAGTCCATTA
 GCGCGCTGGCACTGAGCTCGGTGGACGGGACCAGTGGCTGGCATCTGCTATGTGGGCAACCAAACT
 GAACTCACTACGAGGCTTGTCTTGGGCCCACTGGTGTGTACCTGTTGGTGGGACGCTCTTCTTCTG
 GCAGGCTTCTGTGCTACTTCCGCATCCGAGCGTCATCAAGCAGGGTGGCACTAAGACGGACAAGCTAG
 AGAAGCTCATGATCCGCATCGGCATCTTACCCTGCTCTACACGGTGCCAGCCAGCATCGTGGTGGCCTG
 CTACCTGTATGAGCAGCACTACCGGAGAGCTGGGAGGCAGCCCTCACCTGCGCGTGTCCGGACCCGGAC
 GCTGGCCAGCCACGCGCCAAACCCGAGTACTGGTGTGCTCATGCTCAAGTACTTTCATGTGCTGGTGGTGG
 GCATCACGTCGGGAGTCTGGATCTGGTCCGGCAAGACTCTGGAGTCTTGGCGGCGGTTACCAGCCGCTG
 CTGCTGCAGCTCTCGCGGGGCCACAAGAGCGGTGGCGCTATGGCCGAGGAGACTATGCGGAGGCCAGC
 GCCGCGCTCACCGCAGGACCGGGCCGCTGGCCACCAGCCGCATACCACAAGCAAGTGTCCCTGTGCG
 ACGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226069 representing NM_022721
 Red=Cloning site Green=Tags(s)

MARPDPSAPPSLLLLLLAQLVGRAAAASKAPVCQEITVPMCRGIGYNLTHMPNQFNHDTQDEAGLEVHQF
 WPLVEIHCSPDLRFFLCSMYTPICLPDYHKPLPPCRSVCERAKAGCSPLMRQYGFAPPERMSCDRLPVLG
 GDAEVLCMDYNRSEATTASPKSFPKPTLPGGPAPSSGGECPSSGGSVCTCREPFVPIKESHPLYNKV
 RTGQVPNCAVPCYQPSPPDERTFATFWIGLWSVLCFISTSTTVATFLIDMERFRYPERPFIIFLSACYLC
 VSLGFLVRLVVGHASVACSREHSHIHYETTGPALCTVVFLLVYFFGMASSIWWWILSLTWFLAAGMKWGN
 EAIAGYAQYFHLAOWLIPSVKSITALALSSVDGDPVAGICYVGNQNLNSLRGFVLGPLVLVLLVGTLLFLL
 AGFVSLFRIRSVIKQGGTKTDKLEKLMIRIGIFTLTYVPASIVVACYLYEQHYRESWEALTCACPGPD
 AGQPRAKPEYWVLMKLYFMCLVVGITSGVWIWSGKTLESWRRFTSRCCSSRRGHKSGGAMAAGDYAEAS
 AALTGRTGPPGPTAAYHKQVSLSHV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	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]