

Product datasheet for **MC219383**

Fzd9 (NM_010246) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd9 (NM_010246) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fzd9
Synonyms:	mfz9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219383 representing NM_010246
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTGCCACCGCTGCTCCGCGGGGCGCTGCTGCTGTGGCAGCTGCTGGCGACGGGCGCGCGCGC
 TGGAGATCGGCCGCTTCGATCCGGAGCGTGGCCGTGGCCCGCACCGTGCCAAGCGATGGAGATCCCCAT
 GTGCCGGGGCATTGGCTACAACCTGACCCGCATGCCAACCTACTGGCCACACGTCGCAGGGCGAGGCG
 GCGGCGCAGCTGGCCGAGTTCTCGCCCTCGTGCAGTACGGTGCACAGCCACCTGCGCTTCTTCTCT
 GCTCGCTACGCCCAATGTGCACCGACCAGGTCTCCACTCCCATCCCAGCCTGCCGGCCATGTGCGA
 GCAGGCTCGCTGCGCTGCGCCCCATCATGGAGCAATTCATTTTCGGCTGGCCGACTCACTCGACTGT
 GCCCGGCTCCCCACGCGCAACGACCCGCACGACTCTGTATGGAGGCACCCGAGAAGCTACAGCAGGCC
 CCACAGAACCCACAAGGGCCTGGGCATGCTCCCTGTGGCACCTCGGCCGCGAGGCCACCGGGAGATTC
 AGCCCCAGGTCCCGGCAGCGGTGGCACCTGCGACAACCCGAGAAGTTCCAGTACGTGGAGAAGAGTCGC
 TCGTGCCTCCGCGCTGCGGGCCAGGCGTCGAGGTGTTCTGGTCTCGGCCGATAAAGACTTCGCGCTGG
 TTTGGATGGCTGTGGTCCGCGTTGTGTTTCTTCCACGCGCTTACCAGTGTTCACCTTCTGCTGGA
 GCCTCACCGGTTCCAGTACCCAGAGCGCCGATTATCTTCTTTCTATGTGCTACAATGTCTACTCCTTG
 GCCTTCTGATCAGAGCGGTGGCAGGTGCACAGAGTGTGGCATGCGACCAGGAGGCGGGGCTCTGTATG
 TGATCCAGGAGGGTCTGGAAAACACAGGCTGCACCCTGGTCTTCTGTTGCTCTATTATTTCCGGATGGC
 CAGCTCACTTTGGTGGTGGTTTTGACTCTAACCTGGTTCCTGGTGCAGGCAAAAAATGGGGCCACGAG
 GCCATCGAGGCTACGGCAGCTACTTCCACATGGCAGCGTGGGGCCTGCCAGCACTCAAACCTATCGTGG
 TCCTGACTCTGCGCAAGGTGGCTGGCGATGAACCTGACTGGGCTCTGCTATGTAGCCAGCATGGACCCGGC
 AGCCCTACTGGCTTTGTGTTGGTACCCTATCTTGTACTGGTACTGGTACCAGTTTCTCCTGACC
 GGTTTTGTGGCTCTTCCATATCCGCAAAATCATGAAGACGGGAGGCACCAATACGGAGAAGCTGGAGA
 AGCTGATGGTCAAAATCGGAGTCTTTTCCATCCTTTACACAGTGCAGGACCTGCGTCAATTGTCTGCTA
 CGTTTATGAACGCTCAACATGGACTTCTGGCGGCTTCGGGCCACAGAGCAACCATGACTGCTGCCACC
 GTGCTGGAGGCCGAGAGACTGCTCGTGCAGGGGGCTCGGTGCCACTGTGGCTGTCTTCATGCTCA
 AAATCTTCATGCTTGGTGGTGGGCATCACCAGTGGAGTCTGGGTATGGAGTTCCAAGACTTTTCAGAC
 TTGGCAGAGCCTGTGCTACCGAAAAATGGCAGCTGGCCGAGCCCGGGCCAAGGCCTGCCAACCCAGGG
 GGCTATGGCCGGGTACCACTGCCACTCAAAGCCCCACGGTGGTCTTGCACATGACTAAGACAGACC
 CCTCTCTGGAGAACCCACACACCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_010246
- Insert Size:** 1779 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:	<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_010246.1 , NP_034376.1
RefSeq Size:	2110 bp
RefSeq ORF:	1779 bp
Locus ID:	14371
UniProt ID:	Q9R216
Cytogenetics:	5 75.08 cM
Gene Summary:	Receptor for WNT2 that is 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 (By similarity). Plays a role in neuromuscular junction (NMJ) assembly by negatively regulating the clustering of acetylcholine receptors (AChR) through the beta-catenin canonical signaling pathway (PubMed:24860427). May play a role in neural progenitor cells (NPCs) viability through the beta-catenin canonical signaling pathway by negatively regulating cell cycle arrest leading to inhibition of neuron apoptotic process (By similarity). During hippocampal development, regulates neuroblast proliferation and apoptotic cell death (PubMed:15930120). Controls bone formation through non canonical Wnt signaling mediated via ISG15 (PubMed:21402791). Positively regulates bone regeneration through non canonical Wnt signaling (PubMed:24391920).[UniProtKB/Swiss-Prot Function]