

## Product datasheet for **MR215690**

### **Fzd9 (NM\_010246) Mouse Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR215690 representing NM\_010246  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGTGCCACCCTGCTCCGCGGGGCGCTGCTGCTGTGGCAGCTGCTGGCGACGGGCGCGCGCGC  
 TGGAGATCGGCCCTTCGATCCGAGCGTGGCCGTGGCCCGCACCGTGCCAAGCGATGGAGATCCCCAT  
 GTGCCGGGCAATTGGCTACAACCTGACCCGCATGCCAACCTACTGGCCACACGTCGCGAGGCGAGGCG  
 GCGGCGCAGCTGGCCGAGTTCTCGCCCCTCGTGCAGTACGGTGCACAGCCACCTGCGCTTCTTCTCT  
 GCTCGCTACGCCCAATGTGCACCGACCAGTCTCCACTCCCATCCCAGCCTGCCGGCCATGTGCGA  
 GCAGGCTCGCTGCGCTGCGCCCCATCATGGAGCAATTCATTTTCGGCTGGCCGACTCACTCGACTGT  
 GCCCGGCTCCCCACGCGCAACGACCCGCACGACTCTGTATGGAGGCACCCGAGAAGCTACAGCAGGCC  
 CCACAGAACCCACAAGGGCCTGGGCATGCTCCCTGTGGCACCTCGGCCGCGAGGCCACCGGGAGATTC  
 AGCCCCAGTCCCGCAGCGGTGGCACCTGCGACAACCCGAGAAGTTCCAGTACGTGGAGAAGAGTCGC  
 TCGTGCCTCCGCGCTGCGGGCCAGGCGTCGAGGTGTTCTGGTCTCGGCCGATAAAGACTTCGCGCTGG  
 TTTGGATGGCTGTGGTCCGCGTTGTGTTTCTTCCACGCGCTTACCCTGTTACCTTCTGCTGGA  
 GCCTCACCGGTTCCAGTACCCAGAGCGCCGATTATCTTCTTTCTATGTGCTACAATGTCTACTCCTTG  
 GCCTTCTGATCAGAGCGGTGGCAGGTGCACAGAGTGTGGCATGCGACCAGGAGGCGGGGCTGTATG  
 TGATCCAGGAGGGTCTGGAAAACACAGGCTGCACCCTGGTCTTCTGTTGCTCTATTATTTCCGGATGGC  
 CAGCTCACTTTGGTGGTGGTTTTGACTTAACCTGGTCTTCTGGTGCAGGCAAAAAATGGGGCCACGAG  
 GCCATCGAGGCTCACGGCAGTACTTCCACATGGCAGCGTGGGGCCTGCCAGCACTAAAACATCGTGG  
 TCCTGACTCTGCGCAAGGTGGCTGGCGATGAACCTGACTGGGCTCTGCTATGTAGCCAGACTGACCCGCG  
 AGCCCTCACTGGCTTTGTGTTGGTACCCCTATCTTGTACTGGTACTGGGTACCAAGTTTCTCTCGACC  
 GGTTTTGTGGCTCTTCCATATCCGCAAAATCATGAAGACGGGAGGCACCAATACGGAAGACTGGAGA  
 AGCTGATGGTCAAAATCGGAGTCTTTTCCATCCTTTACACAGTGCAGGACCTGCGTCATTGTCTGCTA  
 CGTTTATGAACGCTCAACATGGACTTCTGGCGGCTTCCGGCCACAGAGCAACCATGACTGCTGCCACC  
 GTGCTGGAGGCCGAGAGACTGCTCGCTGCCAGGGGCTCGGTGCCACTGTGGCTGTCTTATGCTCA  
 AAATCTTATGCTTGGTGGTGGGCATCACCAGTGGAGTCTGGGTATGGAGTTCCAAGACTTTTACAGC  
 TTGGCAGAGCCTGTGCTACCGAAAAATGGCAGCTGGCCGAGCCCGGCCAAGGCTGCCGAACCCAGGG  
 GGCTATGGCCGGGTACCACTGCCACTACAAAGCCCCACGGTGGTCTTGCACATGACTAAGACAGACC  
 CCTCTCTGGGAACCCACACACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215690 representing NM\_010246  
 Red=Cloning site Green=Tags(s)

MAVPPLLRLGALLLWQLLATGGAALIEIGRFDPERGRGPAPCQAMEIPMCRGIGYNLTRMPNLLGHTSQGEA  
 AAQLAEFSPLVQYGCCHSLRFFLCSLYAPMCTDQVSTPIPACRPMCEQARLRAPIMEQFNFGWPDSLDC  
 ARLPTRNDPHALCMEAPENATAGPTEPHKGLGMLPVAPRPARPPGDSAPGPGSGGTCDNPEKQYVEKSR  
 SCAPRCGPGVEVFWRRDKDFALVWMAVWSALCFSTAFVFTFLLEPHRFQYPERPIIFLSMCYNNVYSL  
 AFLIRAVAGAQSVAQDQAEAGALYVIQEGLENTGCTLVFLLLYYFGMASSLWWVVLTLTWFLAAGKKWGHE  
 AIEAHGSYFHMAAWGLPALKTIIVVLTLRKVAGDELTLGLCYVASMDPAALTGFVLVPLSCYLVLGTSFLLT  
 GFVALFHIRKIMKTGGTNTKLEKLMVKIGVFSILYTPATCVIVCYVYERLNMDFWRLRATEQPCTAAT  
 VPGRRDCSLPGGSVPTVAVFMLKIFMSLVVVGITSGVWVWSSKTFQWQSLCYRKMMAAGRARAKACRTPG  
 GYGRGTHCHYKAPTIVLHMTKTDPSLENPTL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9014\\_g07.zip](https://cdn.origene.com/chromatograms/mm9014_g07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_010246

ORF Size: 1776 bp

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:
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

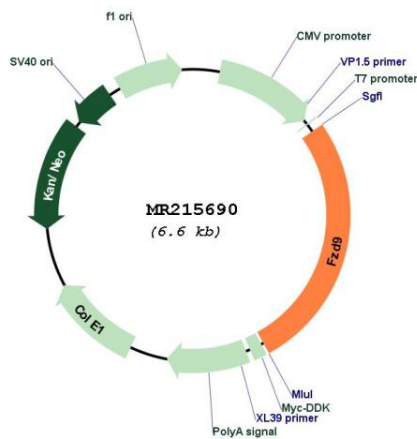
UniProt ID: [Q9R216](#)

Cytogenetics: 5 75.08 cM

MW: 65.4 kDa

**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]

**Product images:**



Circular map for MR215690