

## Product datasheet for **RN213682**

### **Fzd8 (NM\_001044251) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fzd8 (NM_001044251) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fzd8
Synonyms:	MGC112790
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN213682 representing NM\_001044251  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGTGGGTTACCTGTTGGAAGTGACCTCGCTACTAGCCGCCTTGGCGGTGCTACAGCGCTCGAGCG  
 GCGCTGCCGCGGCTTCGGCCAAGGAGCTGGCGTGCCAAGAGATCACAGTGCCGCTGTGCAAGGGCATCGG  
 TTACAACCTACACCTACATGCCAACCAAGTCAACCACGACACGCAAGATGAGCGGGCTAGAGGTACAC  
 CAGTTCTGGCCGCTGGTGGAGATCCAGTCTCCCGGACCTCAAGTTCTTTCTGTGTAGCATGTACACGC  
 CCATCTGCCTGGAGGACTACAAGAACTCTGCCGCTTGGCGCTCTGTGTGTAACGCGCCAAGGCCGG  
 CTGCGCGCCGCTCATGCGCCAGTACGGCTTGCCTGGCTGACCGAATGCGCTGCGATCGGCTGCCGGAG  
 CAGGGCAACCCGACACTCTGTGCATGGACTACAACCGCACCGACCTCACCACGGCCGCGCCAGCCAC  
 CGCGCCGCTGCCGCGCCGAGCCTGGCGAGCAGCCGCCCTCCGGCAGCGGCCACAGCCGCCCGCCAGG  
 GGCCAGGCCCCACATCGTGGCGGACGAGTAGGGGACGCGGGGACACGGCGGCTGCGCCCCCTCTCGC  
 GCGGGAAAGCGAGGCCCTGGTGGCGGCGCCGCTCCCTGCGAGCCGGGTGCCAGTGCCGCGCGCCCA  
 TGGTGAGTGTGTCCAGCGAACGCCACCCGCTCTACAACCGCGTCAAGACCGGCCAGATCGCAACTGTGC  
 GCTGCCCTGCCAACCCCTTCTTAGCCAGGATGAGCGCGCCTTCACTGTCTTCTGGATCGGCTTGTGG  
 TCGGTGCTCTGCTTCGTCTCCACCTTCGCCACTGTCTCTACCTTCCCTCATCGATATGGAGCGCTTAAAGT  
 ACCCGGAACGGCCATTATTCCTCTCTGCCTGCTACCTTCTCGTGTCTGTGGGTACCTGGTGGCGCT  
 GGTGGCTGGACACGAGAAAGTGGCTGCAGCGGCGCGCGCGGGTGCAGGAGGAGCTGGGGTGTGGC  
 GCGCGCGGACCGCTGGCGCGGGGGCGGGGAGCGGGGGCAGCAGCCGGGCGCGCGCGGCGAGTACG  
 AGGAGCTGGGTGCAGTGGAGCAGCACGTGCGCTATGAGACCACTGGCCCCGCGTGTGCACGGTAGTCTT  
 CCTCCTTGTCTACTTTTTTGGCATGGCTAGCTCCATCTGGTGGGTAACTCTGTCTCTCACGTGGTTCTTG  
 GCGGCTGGTATGAAATGGGGCAACGAGGCCATAGCAGGCTACTCGCAATACTTCCACCTGCCGCGTGGC  
 TCGTGCCAGCGTCAAGTCCATAGCGGTGCTGGCGCTCAGCTCCGTGGACGGCGACCCGGTGGCGGGCAT  
 CTGCTACGTGGGCAACCAGACCTTGACAACTACGCGGCTTGTACTGGCGCCACTGGTCATCTACCTC  
 TTCATTGGGACTATGTTTCTGTTAGCTGGCTTCGTGCTGCTGTTCCGAATCCGCTCAGTCATCAAGCAAC  
 AAGGAGGCCCAACCAAGACTCACAAGCTAGAAAAGCTCATGATCCGCTTGGGCTCTTACCCTGCTCTA  
 CACGGTCCCAGCGCGCTGTTGTGCGCTGCCTTTTCTATGAGCAGCACAACCGACCGCTGGGAGGCC  
 ACGCACAACCTGCCATGCCTTCGCGACCTGCAGCCAGACCAGGCTCGCAGCCCGACTACCGGCTTCA  
 TGCTCAAGTACTTCATGTGCCTAGTGGTGGGCATCACATCAGGCGTGTGGGTCTGGTCCGCAAGACTCT  
 GGAGTCTGGCGTGCCTTGTGTACTCGCTGCTGCTGGGCCAGCAAGGGCGCTGCAGTTGGCGCGGGCC  
 GGAGGCAGCGGCCCTGGGGGCGGTGCCCGCGGGCCGGTGGGGTGGGGGCACGGCGGAGGTGGGGAT  
 CCCTCTACAGCGACGTCAGCACCGGCTGACGTGGCGGTCTGGCACGGCCAGCTCTGTATCTTACCCTAA  
 GCAAAATGCCATTGTCCCAAGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001044251
- Insert Size:** 2055 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\\_001044251.2](#), [NP\\_001037716.1](#)

**RefSeq Size:** 3012 bp

**RefSeq ORF:** 2055 bp

**Locus ID:** 364754

**UniProt ID:** [Q498S8](#)

**Cytogenetics:** 17q12.1

**Gene Summary:** Receptor for Wnt proteins. Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes. The beta-catenin canonical 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. 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. Coreceptor along with RYK of Wnt proteins, such as WNT1 (By similarity).[UniProtKB/Swiss-Prot Function]