

## Product datasheet for **RR213682**

### **Fzd8 (NM\_001044251) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR213682 representing NM\_001044251  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTGGGTTACCTGTTGGAAGTGACCTCGCTACTAGCCGCCTTGGCGGTGCTACAGCGCTCGAGCG  
 GCGCTGCCGCGGCTTCGGCCAAGGAGCTGGCGTGCCAAGAGATCACAGTGCCGCTGTGCAAGGGCATCGG  
 TTACAACCTACACCTACATGCCAACCAAGTTCAACCACGACACGCAAGATGAGCGGGCTAGAGGTACAC  
 CAGTTCTGGCCGCTGGTGGAGATCCAGTCTCCCCGGACCTCAAGTTCTTTCTGTGTAGCATGTACACGC  
 CCATCTGCCTGGAGGACTACAAGAAACCTCTGCCGCTTGCCGCTCTGTGTGTAACGCGCCAAGGCCGG  
 CTGCGCGCCGCTCATGCGCCAGTACGGCTTTCCTGGCCTGACCGAATGCGCTGCGATCGGCTGCCGGAG  
 CAGGGCAACCCGACACTCTGTGCATGGACTACAACCGCACCGACCTCACCACGGCCGCGCCAGCCAC  
 CGCGCCGCTGCCGCGCCGACGCTGGCGAGCAGCCGCCCTCCGGCAGCGGCCACAGCCGCCGCCAGG  
 GGCCAGGCCCCACATCGTGGCGGACGAGTAGGGGACGCGGGGACACGGCGGCTGCGCCCCCTCTCGC  
 GCGGGAAAGCGAGGCCCCCTGGTGGCGCGCCGCTCCCTGCGAGCCCGGTGCCAGTGCCGCGCGCCCA  
 TGGTGAGTGTGTCCAGCGAACGCCACCCGCTCTACAACCGCGTCAAGACCGGCCAGATCGCAACTGTGC  
 GCTGCCCTGCCACAACCCCTTCTTAGCCAGGATGAGCGCGCCTTCACTGTCTTCTGGATCGGCTTGTGG  
 TCGGTGCTCTGCTTCGTCTCCACCTTCGCCACTGTCTCTACCTTCTCATCGATATGGAGCGCTTAAAGT  
 ACCCGAACCGGCCATTATTCCTCTCTGCCTGCTACCTCTTCGTGTCTGTGGGTACCTGGTGGCGCT  
 GGTGGCTGGACACGAGAAAGTGGCTGCAGCGGCGCGCGCGGGTGCAGGAGGAGCTGGGGTGTGGC  
 GCGCGCGGACCGCTGGCGCGGGGGCGGGGAGCGGGGGCAGCAGCCGGGCGCGCGCGGCGAGTACG  
 AGGAGCTGGTGCAGTGGAGCAGCACGTGCGCTATGAGACCACTGGCCCCGCGCTGTGCACGGTAGTCTT  
 CCTCCTTGTCTACTTTTTTGGCATGGTAGCTCCATCTGGTGGTAATCCTGTCTCTCACGTGGTTCTTG  
 GCGGCTGGTATGAAATGGGGCAACGAGGCCATAGCAGGCTACTCGCAATACTTCCACCTTGCCGCGTGGC  
 TCGTGCCAGCGTCAAGTCCATAGCGGTGCTGGCGCTCAGCTCCGTGGACGGCGACCCGGTGGCGGGCAT  
 CTGCTACGTGGGCAACCAGACCTTGACAACCTACGCGGCTTTGTACTGGCGCCACTGGTCATCTACCTC  
 TTCATTGGGACTATGTTTCTGTTAGCTGGCTTCGTGTCGCTGTTCCGAATCCGCTCAGTCATCAAGCAAC  
 AAGGAGGCCCAACCAAGACTCACAAGCTAGAAAAGCTCATGATCCGCTTGGGCTCTTACCCTGCTCTA  
 CACGGTGCCCGCCGCTCGTTGTGCCTGCCTTTTCTATGAGCAGCACAACCGACCGCTGGGAGGCC  
 ACGCACAACCTGCCATGCCTTCGCGACCTGCAGCCAGACCAGGCTCGCAGGCCGACTACGCGGTCTTCA  
 TGCTCAAGTACTTCATGTGCCTAGTGGTGGGCATCACATCAGGCGTGTGGGTCTGGTCCGCAAGACTCT  
 GGAGTCTGGCGTGCCTGTGTACTCGCTGCTGCTGGGCCAGCAAGGGCGCTGCAGTTGGCGCGGGCGCC  
 GGAGGCAGCGCCCTGGGGGCGGTGGCCCCGGGCCCGTGGGGTGGGGGCACGGCGGAGGTGGGGAT  
 CCCTCTACAGCGACGTACGACCCGGCTGACGTGGCGGTCTGGCACGGCCAGCTCTGTATCTTACCCTAA  
 GCAATGCCATTGTCCCAAGTC

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213682 representing NM\_001044251  
Red=Cloning site Green=Tags(s)

```
MEWGYLLEVTSLAALAVLQRSSGAAAASAKELACQEITVPLCKGIGYNYTYMPNQFNHDTQDEAGLEVH
QFWPLVEIQSPDLKFFLCSMYTPICLEDYKKPLPPCRSVCERAKAGCAPLMRQYGF AWPDRMRCDLPE
QGNPDTLCMDYNRTLTTAAPSPPRRLPPPQPEQPPSGSGHSRPPGARPPHRGGSSRGSGDTAAAPPSR
GGKARPPGGGAAPCEPGCQCRAPMVSVSSEHPLYNRVKGTQIANCALPCHNPFSSQDERAFTVFWIGLW
SVLCFVSTFATVSTFLIDMERFKYPERPIIFLSACYL FVSVGYLVRLVAGHEKVACSGGAPGAGGAGGAG
GAATAGAGAAGAGASSPGARGEYEELGAVEQHVRVYETTPALCTVVFLLVYFFGMASSIWWVILSLTWFL
AAGMKWGNEAIAGYSQYFHAAWLVPVKSI AVLALSSVDGDPVAGICYGNQSLDNLRGFVLA PLVIYL
FIGTMFLLAGFVSLFRIRSVIKQQGGPTKTHKLEKLMIRLGLFTVL YTPAAVVVACL FYEQHNRPRWEA
THNCPCLRDLPDQARRPDYAVFMLKYFMCLVVGITSGVWVWSGKTLESWRALCTRCCWASKGA AVGAGA
GGSGPGGGGPGPGGGGGHGGGGSLYSDVSTGLTWRSGTASSVSYPKQ MPLSQV
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001044251

**ORF Size:** 2052 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\\_001044251.2](#), [NP\\_001037716.1](#)

**RefSeq Size:** 3012 bp

**RefSeq ORF:** 2055 bp

**Locus ID:** 364754

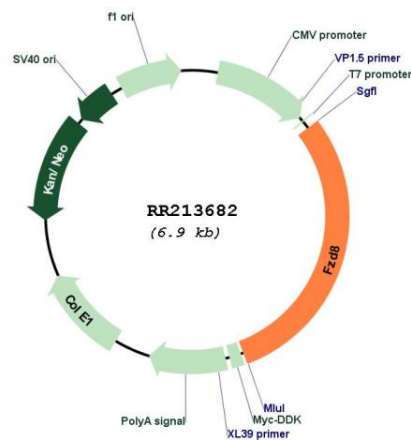
**UniProt ID:** [Q498S8](#)

**Cytogenetics:** 17q12.1

**MW:** 73 kDa

**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]

### Product images:



Circular map for RR213682