

Product datasheet for **MR223304**

Fzd8 (NM_008058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd8 (NM_008058) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fzd8
Synonyms:	Fz8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223304 representing NM_008058
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTGGGTTACCTGTTGGAAGTGACCTCGCTCCTAGCCGCCTTGGCGGTGCTACAGCGCTCTAGCG
 GCGCTGCCGCGGCTTCGGCCAAGGAGCTGGCGTGCCAAGAGATCACGGTGCCGTTGTGCAAAGGCATCGG
 TTACAACACTACTTACATGCCCAACCAGTTCAACCACGACACGCAAGATGAGCGGGCCTAGAGGTGCAC
 CAGTTTTGGCCGCTGGTGGAGATACAGTCTCCCCGGACCTCAAGTTCTTTCTGTGTAGCATGTACACGC
 CCATCTGCCTGGAGGACTACAAGAAGCCTCTGCCGCTTGTGCTCTGTGTGTAACGCGCCAAGGCCGG
 CTGCGCGCCGCTCATGCGCCAGTACGGCTTTGCTTGGCCTGACCGCATGCGCTGCGATCGGTTGCCGGAG
 CAGGGCAACCCGGACACTCTGTGCATGGACTACAACCGCACCGACCTCACCACGGCCGCGCCAGCCAC
 CGCGCCGCTGCCTCCGCCGCTCCTCCGGCGAGCAGCCGCCCTCTGGCAGCGGCCACAGCCGCCCGCC
 AGGGGCCAGGCCCCACATCGTGGCGGCAGCAGTAGGGGCAGCGGGACGCGCGGCTGCGCCCCCTTCG
 CGCGGGCGGAAGGCGAGGCCCTTGGTGGCGGCGCTGCTCCCTGCGAGCCGGGGTGCCAGTGCCGCGCGC
 CCATGGTGGAGCGTGTCCAGCGAACGCCACCCGCTCTACAACCGCGTCAAGACCGGCCAGATCGCCAACTG
 TGCGCTGCCCTGCCACAACCCCTTTTAGCCAGGATGAGCGCGCCTTACCCTTCTTGGATCGGCCTG
 TGGTCGGTGTCTGCTTCGTCTCCACCTTCGCCACTGTCTCTACCTTCTCATCGATATGGAGCGCTTTA
 AGTACCCGGAACGGCCCATCATATTCCTCTCCGCTGTTACCTCTTCGTGTCTGTGCGGTACCTGGTGGC
 CCTGGTGGCAGGACATGAGAAAGTGGCTGCAGCGCGCGCTCCGGGTGCTGGCGGAGCTGGGGGTGGC
 GCGCGCGCGCGCGGCTGGCGCAGGGGACGCGGAGCGGGGCGAGCAGCCGGGCGCGCGCGCGGAGT
 ACGAGGAGCTGGGTGCAGTCGAGCAGCATGTTTCGCTATGAAACCACTGGCCCCGCGCTGTGCACGGTGT
 CTTTCTCCTTGTCTACTTTTTTGGCATGGCCAGCTCCATCTGGTGGTAATCCTGTGCTCACGTGGTTC
 TTGGCAGCTGGCATGAAGTGGGGTAATGAGGCCATAGCAGGCTACTCGCAGTACTTCCACCTGGCCGCT
 GGCTTGTGCCAGCGTCAAGTCCATCGCGGTGCTGGCGCTCAGCTCCGTAGACGGCGACCCGGTGGCGGG
 CATCTGTACGTGGGCAACCAGAGCCTTGACAACCTACGCGGCTTTGTGCTGGCGCCACTGGTTATCTAC
 CTCTTCATTGGGACTATGTTTCTGTTAGCTGGCTTCGTGTGCTGTTCCGAATCCGTTACGTATCAAGC
 AGCAAGGAGGCCCAACTAAGACACACAAGCTAGAAAACTCATGATCCGCTTGGGCCTTTCACCGTGTCT
 CTACACGGTGCCCGCTGCCGTCGTTGTCGCTGCCTTTTCTATGAGCAGCACAACCGACCCGCTGGGAG
 GCCACGCACAACCTGCCATGCCCTCGGGACCTGCAACCGGACCAGGCTCGCAGGCCGATTACGCGGTCT
 TCATGCTCAAGTACTTTCATGTGCCTAGTAGTGGGCATCACATCGGGCGTGTGGGTCTGGTCCGGCAAGAC
 TCTGGAGTCTTGGCGCGGTTGTGCACTAGGTGCTGCTGGGCCAGCAAGGGCGCTGCAGTAGGCGCGGGC
 GCTGGAGGCAGCGGCCCTGGGGGAGTGGACCCGGGCCGGGAGGTGGGGGACACGGCGGAGGCGGGG
 GATCCCTCTACAGCGACGTCACTACCGCCTGACGTGGCGGTCTGGCACGGCCAGCTCTGTATCTTACCC
 TAAGCAAATGCCATTGTCCCAGGTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223304 representing NM_008058
 Red=Cloning site Green=Tags(s)

MEWGYLLEVTSLAALAVLQRSSGAAAASAKELACQEITVPLCKGIGYNYTYMPNQFNHDTQDEAGLEVH
 QFWPLVEIQSPDLKFFLCSMYTPICLEDYKKPLPPCRSVCERAKAGCAPLMRQYGF AWPDRMRCDLPE
 QGNPDTLCMDYNRTDLTTAAPSPRRLLPPPPPPGEQPPSGSGHSRPPGARPPHRGGSSRGSGDAAAAPP
 RGGKARPPGGGAAPCEPGCQCRAPMVSVSERHPLYNRVKTGQIANCALPCHNPFSSQDERAFTVFWIGL
 WSVLCFVSTFATVSTFLIDMERFKYPERPIIFLSACYLFSVGYLVRLVAGHEKVACSGGAPGAGGAGGA
 GAAAAAGAGAAGAGASSPGARGEYEELGAVEQHVRVYETTPALCTVVFLLVYFFGMASSIWWVILSLTWF
 LAAGMKWGNEAIAGYSQYFHLAAWLVPSVKSI AVLALSSVDGDPVAGICYVGNQSLDNLRGFVLAPLVIY
 LFIGTMFLLAGFVSLFRIRSVIKQGGPTKTHKLEKLMIRLGLFTVL YTVPAVVVACLFYEQHNRPWE
 ATHNCPCLRDLQPDQARRPDYAVFMLKYFMCLVVGITSGVWVWSGKTLESWRALCTRCCWASKGAAVGAG
 AGGSGPGSGPGPGGGGGHGGGGSLYSDVSTGLTWRSGTASSVSYPKQMPLSQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008058

ORF Size: 2055 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_008058.2](#), [NP_032084.2](#)

RefSeq Size: 3346 bp

RefSeq ORF: 2058 bp

Locus ID: 14370

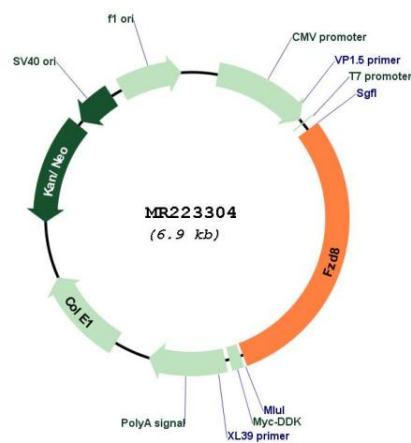
UniProt ID: [Q61091](#)

Cytogenetics: 18 4.91 cM

MW: 73.5 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 (By similarity). 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.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR223304