

Product datasheet for **MR208974**

Fzd2 (NM_020510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd2 (NM_020510) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fzd2
Synonyms:	AL033370; AW456835; Fz10; Fzd10; Mfz10; Mfz10a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208974 representing NM_020510
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGGCCCGCAGCGCCCTGCCCGCAGCGCCCTGCCCGCCTGCTGCTGCCACTGCTGCTGCTGCCGG
 CCGCCGACCGGCCAGTTCCACGGGGAGAAGGGCATCTCCATCCCGACCACGGCTTCTGCCAGCCAT
 CTCCATCCCGCTGTGCACGGACATCGCCTACAACCAGACCATCATGCCAACCTTCTTGCCACACGAAC
 CAGGAAGACGCGGGCCTGGAGGTGCATCAGTTCTACCGCTGGTGAAGGTGCAGTCTCGCCGAGCTGC
 GCTTCTTCTGTGCTCCATGTACGCGCCGGTGTGCACAGTCTGGAGCAGGCCATCCCGCGTGCCGCTC
 CATCTGCGAGCGCGCGCAAGGCTGCGAGGCGCTCATGAACAAGTTCGGTTCGAATGGCCGAGCGC
 CTCGCTGCGAGCATTCCCGCGTCACGGCGGGAGCAGATCTGCGTGGCCAGAACCACTCGGAGGACG
 GAGCTCTGCGCTACTCACCACCGGCCACCTTCTGGGCTGCAGCCGGCGGGTGGCACCCCGGGCGG
 CCCTGGCGGTGGTGGCTGCCACCGGTTACGCCACTCTGGAGCACCTTCCACTGTCCCGCGTCTCTC
 AAGGTGCCGTCTATCTCAGCTATAAGTTTCTGGGTGAGCGGATTTGTGCCGCGCCCTGCCAGCCGAC
 GGCCCGACGGCTCTATGTTCTTCTCGAAGAGGAGACTCGTTTTGCCCGTCTCTGGATCCTCACATGGT
 GGTGTTGTGCTGCGCTTCCACTTCTTTCACGGTACCACCTATTTAGTGGACATGACGCGATTTGCTAC
 CCAGAGCGGCCATCATCTTTCTGTCCGGCTGCTACCATGGTGTCACTGGCCTACATTGCGGGCTTCG
 TTCTCCAGGAGCGGTGGTATGCAATGAGCGCTTCTCAGAGGACGGTTATCGCACGGTGGTGCAGGGC
 TAAGAAAGAAGGCTGCACTATACTTTCATGATGCTCTACTTCTCAGCATGGCCAGTCCATCTGGTGG
 GTGATTCTGTCCCTCACCTGGTTCCTGGCAGCCGGAATGAAGTGGGGCCACGAGGCCATCGAGGCCAAT
 CGCAGTACTTCCACTGGCCGCTGGCCGCTGCCGCGTCAAACCATCACCATCTTGGCCATGGGCCA
 GATCGACGGCGACTGCTGAGCGCGTGTGCTTGGTGGGCTCAATAGCCTGGACCCGCTGCGGGGCTTC
 GTGCTGGCGCGCTCTTCTGATACCTGTTTCATCGGTACATCCTTCTGCTGGCCGCTTCTGTGCTACT
 TCCGCATCCGACCATCATGAAGCACGACGGCACCAAGACGGAGAAGCTGGAGAGGCTCATGGTGCAT
 TGGCGTCTTCTCGGTGCTTACACGGTACCGCCACCATCGTATCGCCTGCTACTTCTATGAGCAGGCC
 TTCCGCGAGCACTGGGAGCGCTCTGGTAAGCCAGCACTGCAAGAGCCTAGCCATCCCTGCCCGGCC
 ACTACACGCCCGCATGTCGCCGACTTACAGTCTACATGATCAAATACCTCATGACGCTCATCGTGGG
 CATCACGTGGGCTTCTGGATCTGGTCCGGCAAGACACTGCACTCGTGGAGGAAGTCTACACTCGTCTC
 ACCAACAGCCGGCATGGCGAGACCACTGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208974 representing NM_020510
 Red=Cloning site Green=Tags(s)

MRARSALPRALSALPRLPLPLPLPAAGPAQFHGEKGISIPDHGFCQPIISIPLCTDIAYNQTIIMPNNLLGHTN
 QEDAGLEVHQFYPLVKVQCSPFLRFFLCSMYAPVCTVLEQAIPPCRSICERARQGCEALMKNKFGFQWPER
 LRCEHFPRHGAEQICVGNHSEDGAPALLTTAPPSGLQPGAGGTPGGPGGGSPPRYATLEHPPHFCPRVL
 KVPSYLSYKFLGERDCAAPCEPARPDGSMFFSQEETRFARLWILTWSVLCCASTFFVTYTYLVDMQRFY
 PERPIIFLSGCTMVSVAIYIAGFVLQERVVNERFSEDGYRTVVQGTKEGCTILFMMLYFFSMASIIWW
 VILSLTWFLAAGMKWGHEAIEANSQYFHLLAAWAVPAVKITITILAMQIDGDLISGVCFVGLNSLDPLRGF
 VLAPLFFVYLFIGTSFLLAGFVSLFRIRTIMKHDGKTEKLERLMVRIGVFSVLYTVPATIVIACYFYEQA
 FREHWERSWVSQHCKSLAIPCPAHTYTPRMSPDFTVYMIKYLMTLIVGITSGFWIWSGKTLHSWRKFYTRL
 TNSRHGETTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_020510

ORF Size: 1710 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_020510.2](#), [NP_065256.1](#)
RefSeq Size: 3628 bp

RefSeq ORF: 1713 bp

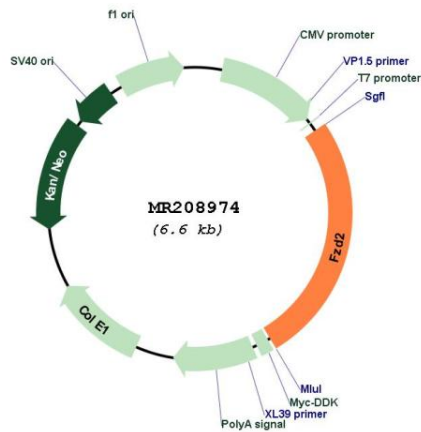
Locus ID: 57265

UniProt ID: [Q9JIP6](#)
Cytogenetics: 11 E1

MW: 64.5 kDa

Gene Summary: Receptor for Wnt proteins. Most of frizzled receptors are 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. 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208974