

Product datasheet for **MR209002**

Fzd7 (NM_008057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd7 (NM_008057) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fzd7
Synonyms:	Fz7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209002 representing NM_008057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCAGGAGTTCTGCTGCTCTGCTGGTGGCCACAGCTTGGCATGGTCAGGGAATCCCAGTGATAG
 AGCCAGTGTCCCTGAGCTGGTCTGAAGCCAGGAGCAACGGTGACCTTGCATGTGTGGCAATGGCAG
 CGTGGAATGGGATGGCCCCCATCACTCACTGGACCCTGTACTCTGATGGCTCCAGCAGCATCCTCAGC
 ACCAACACGCTACCTTCCAAAACACGGGGACCTATCGCTGCACTGAGCCTGGAGACCCCTGGGAGGCA
 GCGCCGCATCCACCTCTATGTCAAAGACCCTGCCGGCCCTGGAACGTGCTAGCACAGGAGGTGGTCTG
 GTTCGAGGACCAGGACGCACTACTGCCCTGTCTGCTCACAGACCCGGTGTGGAAGCAGGCGTCTCGCTG
 GTGCGTGTGCGTGGCCGGCCCTCATGCCACACCAACTACTCCTTCTCGCCCTGGCATGGCTTACCA
 TCCACAGGGCCAAGTTCATTAGAGCCAGGACTATCAATGCAGTGCCTGATGGGTGGCAGGAAGGTGAT
 GTCATCAGCATCCGGCTGAAAGTGCAGAAAGTATCCCAGGGCCCCAGCCTTGACACTGGTGCCTGCA
 GAGCTGGTGGGATTCGAGGGGAGGCTGCCAGATCGTGTGCTCAGCCAGCAGCCTTGATGTTAACTTTG
 ATGCTTCTCCTCAACACAACAACAACCAAGCTCGCAATCCCTCAACAATCTGACTTTCATAATAACCGTTA
 CAAAAAGTCTGACCCTCAACCTCGATCAAGTAGATTTCAAACATGCCGGCAACTACTCTGCGTGGCC
 AGCAACGTGCAGGGCAAGCACTCCACCTCCATGTTCTTCCGGGTGGTAGAGAGTGCCACTTGAACCTGA
 GCTCTGAGCAGAACCTCATCCAGGAGGTGACCGTGGGGGAGGGGCTCAACCTCAAAGTCATGGTGGAGGC
 CTACCCAGGCCTGCAAGGTTTTAACTGGACCTACCTGGGACCCTTTTCTGACCACCAGCCTGAGCCCAAG
 CTTGCTAATGCTACCACAAGGACACATACAGGCACACCTTACCCTCTCTGCCCCGCTGAAGCCCT
 CTGAGGTGGCCGCTACTCCTTCTGGCCAGAAACCCAGGAGGCTGGAGAGCTCTGACGTTTGAAGCTCAC
 CCTTCGATACCCCCAGAGGTAAGCGTCATATGGACATTCATCAACGGCTCTGGCACCCCTTTGTGTGCT
 GCCTCTGGGTACCCCAAGCCACGTGACATGGCTGCAGTGCAGTGGCCACACTGATAGGTGTGATGAGG
 CCCAAGTGTGCAAGTCTGGGATGACCCATACCCTGAGGTCTGAGCCAGGAGCCCTTCCACAAGGTGAC
 GGTGCAGAGCCTGCTGACTGTTGAGACCTTAGAGCACAACCAACCTACGAGTGCAGGGCCACAACAGC
 GTGGGGAGTGGCTCTGGGCCTCATACCCATCTCTGCAGGAGCCACACGCATCCCCGGATGAGTTCC
 TCTTACACCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209002 representing NM_008057
 Red=Cloning site Green=Tags(s)

MGPVGLLLLLVATAWHGQGIPVIEPSVPELVVKPGATVTLRCVGNVSVEWDGPPSPHWTLYSDGSSSILS
 TNNATFQNTGYRCTEPGDPLGGSAAIHLVVKDPAWPWNVLAQEVVVFEDQDALLPCLLTDPVLEAGVSL
 VRVGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGGKRVMSISIRLKVQKVIPGPPALTLVPA
 ELVIRGEAAQIVCSASSVDVNFDFLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVA
 SNVQGHSTSMFFRVVESAYLNLSSQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWTYLGPFSDHQPEPK
 LANATTKDTRHTFTLSLPRPKPSEAGRYSFLARNPGWRALTFELTLRYPPEVSVIWFINGSGTLLCA
 ASGYQPQNVTLQCSGHTDRCDEAQVLQVWDDPYPEVLSQEPFHKVTVQSLLTVEHNTYECRAHNS
 VSGSWAFIPISAGAHTHPPDEFLLFTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_008057

ORF Size: 1716 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.

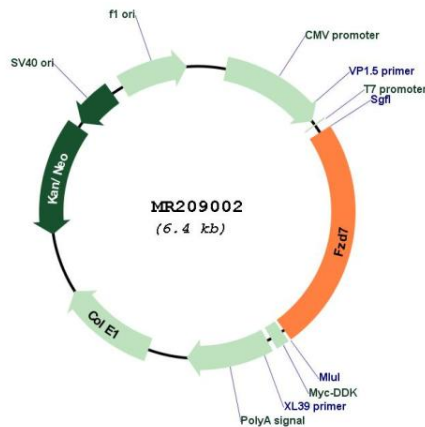
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008057.1](#), [NM_008057.2](#), [NM_008057.3](#), [NP_032083.2](#)
RefSeq Size: 4171 bp
RefSeq ORF: 1719 bp
Locus ID: 14369
UniProt ID: [Q61090](#)
Cytogenetics: 1 30.08 cM
MW: 64.2 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. Activation by Wnt8 induces expression of beta-catenin target genes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209002