

Product datasheet for **MR217595**

Fzd10 (NM_175284) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd10 (NM_175284) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fzd10
Synonyms:	Fz-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR217595 representing NM_175284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAACACCCGGGCCCGCCTGTGGCTGGTGTGCAGGTGATGATAGGCTCGTGCACGGCCATCAGT
 CCATGGACTTAGAGCGCCCTGGAGACGGCAAGTGCAGCCGGTGGAGATTCCCATGTGCAAGGACATCGG
 CTACAACACCACCCGCATGCCAACCTGATGGGTACGAGAACCAGCGGAGCGGCCATCCAACCTGCAC
 GAGTTCGCGCCGCTCGTGGAGTACGGCTGCCACAGCCACCTTCGTTCTTCTGTGTTTCGCTGTACGCGC
 CCATGTGCACCGAGCAGGTCTCCACACCCATCCCTGCTTGCCGGGTATGTGCGAGCAGGCCCGGCTCAA
 GTGCTCGCCGATCATGGAGCAGTTCAAATTCAGGTGGCCGGACTCCCTGGATTGCAGCAAGCTCCCCAAC
 AAGAACGACCCCAACTACCTGTGCATGGAGGCACCAACAACGGCTCGGATGAGCCAGCCGGGGCTCTG
 GCATGTTTCTCCGCTCTTCAGGCCCCAGAGGCCACAGCGCGCAGGAGCACCCACTAAGGACGGGGG
 TCCGGGGCGCGCAGGTTGTGACAACCCAGGCAAGTTCCACCATGTGGAGAAGAGCGAATCTTGCGCACCG
 CTTTGCACCTCCGGGGTGGATGTGATTGGAGCCGCGACGACAAGCGCTTCGCTGTGGTCTGGCTGGCCA
 TCTGGTCCGTGTGCTTCTTCTCCAGCGCCTTACCCTGTCTACCTTCTCATCGACCCATCGCGCTT
 CAGGTACCCCGAACGTCCTATCATCTTCTCTCCATGTGCTACTGCGTTTATTCGGTGGGTATATCATC
 CGCCTTTCGCGGGCGCGGAGAGCATCGCTTGTGACCGGGACAGTGGGCAGCTGTATGTTATCCAGGAAG
 GACTGGAGAGCACGGGCTGTACCTTAGTCTTCTTGGTACTTTACTACTTCGGCATGGCCAGCTCTTTATG
 GTGGTGGTCTCACCTCACTTGGTTCCTGGCTGCTGGAAAGAAGTGGGGCCATGAGGCCATTGAAGCC
 AACAGCAGCTACTTTCACCTGGCAGCTTGGGCCATCCCGGCTGTGAAGACTATCTTGATCTTGGTGATGC
 GCAGGGTGGCAGGGGATGAGCTCACTGGTGTGTTATGTGGGCAGCATGGATGTCAATGCTTGACCCGG
 CTTCTGTGCTGGTCCCGCTGGCTTGTACTACCTAGTACATCGGCACTTCTTTCATCCTGTCCGGCTTGTGGCT
 TTATTCACATCCGGAGGGTGTGAAAACGGGTGGGGAGAACACGGACAAGCTGGAGAAGCTCATGGTAC
 GCATAGGGGTCTTCTCCCTCCTCTACACTGTGCCGGCCACCTGTGTGATTGCCTGCTATTTTTATGAACG
 CCTCAACATGGACTACTGGAAGATGCTGGCCACCCAGCACAAGTGAAGATGAACAATCAGACCAAGACA
 CCTGACTGCCTGATGACCACCTCCATCCCTGCCGTGGAGGTCTTCATGGTCAAAGTGTCCATGCTGCTGG
 TGGTGGGCATCACCAGTGGGGTGTGGGTCTGGACTTCCAAGACCTGCAGTCTGGCAACACGTATGCAG
 CCGGGGGCTAAAGAGAAAAAGCCGGAGGAAACCAGCCAGTGTGGTACCAGTGCAGGGATCTACAAAAA
 GCCCAGCACCCCAAAAACCTCACCTTGGGAAGTATGAACTGCCCGCCAGCCTTACGCCTGCGT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217595 representing NM_175284
 Red=Cloning site Green=Tags(s)

MQHPGPRLLVLQVMIGSCTAISSMDLERPGDGKQPVEIPMCKDIGYNTTRMPNLMGHENQREAAIQLH
 EFAPLVEYGCHSLRFFLCSLYAPMCTEQVSTPIACRVMEQARLKCSPIMEQFKFRWPDSDLCSKLPN
 KNDPNYLCMEAPNNGSDEPSRSGMFPPLFRPQRPHSAQEHLKDGPGRAGCDNPGKFHHVEKSESCAP
 LCTPGVDVYWSRDDKRFVAVWLAIWSVLCFFSSAFTVLTFLIDPSRFRYPERPFIIFLSMCYCVYVGYII
 RLFAGAESIAACDRDSGQLYVIQEGLESTGCTLVFLVLYYFGMASSLWWWLTLTWFLAAGKKWGHEAIEA
 NSSYFHLAAWAIPAVKTIILILVMRRVAGDELTVGCYVGSMDVNALTGFLVPLACYLVIGTSFILSGFVA
 LFHIRRVMKTGGENTDKLEKLMVRIGVFSLLYTPATCVIACYFYERLNMDYWKMLATQHKCKMNNQTKT
 PDCMLTTSIPAVEVFMVKVSMMLLVVGITSGVWVWTSKTLQSWQHVC SRGLKRKSRKRPASVVT SAGIYKK
 AQHPQKPHLGKYELPAQPSACV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2114_d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_175284

ORF Size: 1746 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.

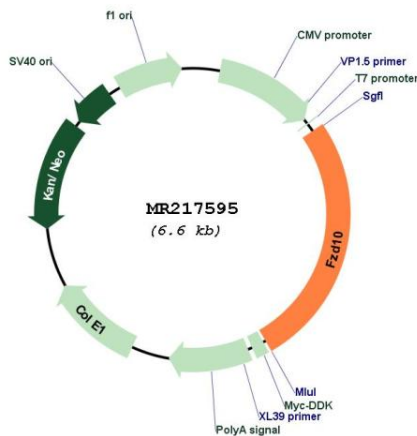
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_175284.3, NP_780493.1](#)
RefSeq Size: 3005 bp
RefSeq ORF: 1749 bp
Locus ID: 93897
UniProt ID: [Q8BKG4](#)
Cytogenetics: 5 G1.3
MW: 65.8 kDa

Gene Summary: Receptor for Wnt proteins (PubMed:15923619). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:15923619). The canonical Wnt/beta-catenin 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 (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217595