

## Product datasheet for **MC219323**

### **Fzd10 (NM\_175284) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC219323 representing NM\_175284  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAACACCCGGGCCCGCCCTGTGGCTGGTGTGCAGGTGATGATAGGCTCGTGCACGGCCATCAGT  
 CCATGGACTTAGAGCGCCCTGGAGACGGCAAGTGCCAGCCGGTGGAGATTCCCATGTGCAAGGACATCGG  
 CTACAACACCACCCGCATGCCAACCTGATGGGTACGAGAACCAGCGGAGCGGCCATCCAACCTGCAC  
 GAGTTCGCGCCGCTCGTGGAGTACGGCTGCCACAGCCACCTTCGTTCTTCTGTGTTTCGCTGTACGCGC  
 CCATGTGCACCGAGCAGGTCTCCACACCCATCCCTGCTTGCCGGGTATGTGCGAGCAGGCCCGGCTCAA  
 GTGCTCGCCGATCATGGAGCAGTTCAAATTCAGGTGGCCGGACTCCCTGGATTGCAGCAAGCTCCCCAAC  
 AAGAACGACCCCAACTACCTGTGCATGGAGGCACCAACAACGGCTCGGATGAGCCAGCCGGGGCTCTG  
 GCATGTTTCTCCGCTCTTCAGGCCCCAGAGGCCACAGCGCGCAGGAGCACCCACTAAGGACGGGGG  
 TCCGGGGCGCGCAGGTTGTGACAACCCAGGCAAGTTCCACCATGTGGAGAAGAGCGAATCTTGCGCACCG  
 CTTTGCACCTCCGGGGTGGATGTGATTGGAGCCGCGACGACAAGCGCTTCGCTGTGGTCTGGCTGGCCA  
 TCTGGTCCGTGTGCTTCTTCTCCAGCGCCTTACCCTGTCTACCTTCTCATCGACCCATCGCGCTT  
 CAGGTACCCCGAACGTCCTATCATCTTCTCTCCATGTGCTACTGCGTTTATTCCGGTGGGCTATATCATC  
 CGCCTCTTCGCGGGCGCGGAGAGCATCGCTTGTGACCGGGACAGTGGGCAGCTGTATGTTATCCAGGAAG  
 GACTGGAGAGCACGGGCTGTACCTTAGTCTTCTTGGTACTTTACTACTTCGGCATGGCCAGCTCTTTATG  
 GTGGTGGTCTCACCTCACTTGGTTCCTGGCTGCTGAAAGAAGTGGGGCCATGAGGCCATTGAAGCC  
 AACAGCAGCTACTTTACCTGGCAGCTTGGGCCATCCCGGCTGTGAAGACTATCTTGATCTTGGTGATGC  
 GCAGGGTGGCAGGGGATGAGCTCACTGGTGTGTGTTATGTGGGCAGCATGGATGTCAATGCTCTGACCCG  
 CTTCTGTGCTGGTCCCGCTGGCTTGTCTACCTAGTCATCGGCACTTCTTTCATCCTGTCCGGCTTTGTGGCT  
 TTATTCCACATCCGGAGGGTGTGAAAACGGGTGGGGAGAACACGGACAAGCTGGAGAAGCTCATGGTAC  
 GCATAGGGGTCTTCTCCCTCCTCTACACTGTGCCGGCCACCTGTGTGATTGCCTGCTATTTTTATGAACG  
 CCTCAACATGGACTACTGGAAGATGCTGGCCACCCAGCACAAGTGAAGATGAACAATCAGACCAAGACA  
 CCTGACTGCCTGATGACCACCTCCATCCCTGCCGTGGAGGTCTTCATGGTCAAAGTGTCCATGCTGCTGG  
 TGGTGGGCATCACCAGTGGGGTGTGGGTCTGGACTTCCAAGACCCTGCAGTCTGGCAACACGTATGCAG  
 CCGGGGGCTAAAGAGAAAAAGCCGGAGGAAACCAGCCAGTGTGGTACCAGTGCAGGGATCTACAAAAAA  
 GCCCAGCACCCCAAAAACCTCACCTTGGGAAGTATGAACTGCCCGCCAGCCTTCAGCCTGCGT**GTA**

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_175284  
**Insert Size:** 1749 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_175284.3</a> , <a href="#">NP_780493.1</a>
<b>RefSeq Size:</b>	3005 bp
<b>RefSeq ORF:</b>	1749 bp
<b>Locus ID:</b>	93897
<b>UniProt ID:</b>	<a href="#">Q8BKG4</a>
<b>Cytogenetics:</b>	5 G1.3
<b>Gene Summary:</b>	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]