

## Product datasheet for **MC203860**

### Fzd4 (NM\_008055) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd4 (NM_008055) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fzd4
Synonyms:	Fz4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC015256  
 AGCGCTGGGGCGGTGAGAACAGCGCGGCTAGAGTGCAGGCGGGCTTCGCCGAAAAGCCGGACTCGGCCG  
 GCGCCGAGTTCTGGGATCGCCGCTGCAGCCATGACCCTAGCAGTCCATCCCTCGGCCCGGGCTCCGGAC  
 GTCTGATATCCCGCACATTCTCGTAACTGCTGGAGAGGCGACTGCTGCCCCCTGTGCAACTGGGGGTGC  
 CTTACCGCATTCCCTATCCGGAGTTGGGAGCAGCGGCCACCGCGCCCTGTGCAACTGGGGGTGC  
 TGCTAGATCAGCCTCTGCCGCTGCTGCCGAGCTCTGGCCATGGCCTGGCCGGGCACAGGGCCGAGCAG  
 CGGGGGGCGCCTGGAGGCGTGGGCTCAGGCTGGGGCTGCTGCTGCAGTTGCTCCTGCTCCTGCGGCCG  
 ACATTGGGGTTCGGGGACGAGGAGGAGCGCGCTGCGACCCATCCGCATCGCCATGTGCCAGAACCCTCG  
 GCTACAACGTGACCAAGATGCCAACTTGTGGGACACGAGCTGCAGACAGACGCCGAGCTGCAGCTGAC  
 AACTTTACGCCGCTCATCCAGTACGGCTGCTCCAGCCAGCTGCAGTTCTTCTTTGTTCCGGTTTATGTG  
 CCAATGTGCACAGAGAAGATCAACATCCCCATCGGCCGTCGGTGGCATGTGCCTTTCAGTCAAGAGAC  
 GCTGTGAACCACTCTGAGAGAATTTGGGTTTGCCTGGCCGACACCCTGAACTGCAGCAAGTCCCGCC  
 CCAGAACGACCACAACCACATGTGCATGGAAGGACCAGGTGATGAAGAGGTTCCCTTGGCCACAAGACT  
 CCCATCCAGCCCGGGGAAGAGTCCACTCCGTGGGAAGCAATTCTGATCAGTACATCTGGTGAAGAGGA  
 GCCTGAACTGTGTTCTCAAGTGTGGCTACGATGTGGCTTGTACAGCCGCTCAGTAAGGAGTTCACGGA  
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 GATTCATCCAGGTTTTCTTACCCTGAGCGCCCATCATATTTCTCAGTATGTGCTATAATTTATAGCA  
 TTGCTTATATTGTTCCGGCTGACTGTAGGCCGGAAAGGATATCCTGTGATTTTGAAGAGGCGCAGAGCC  
 CGTTCTCATCAAAGAAGGACTTAAGAACACAGGATGTGCAATAATTTCTTGGTGTACTTTTTTGG  
 ATGGCCAGCTCCATTTGGTGGTTATTCTGACACTCACTTGGTTTTTGGCAGCCGGACTCAAGTGGGGTC  
 ATGAAGCCATTGAAATGCACAGTTCTTATTTCCACATCGCAGCCTGGGCTATCCCGCAGTGAACCCAT  
 TGTCACTTTGATTATGAGACTAGTGGATGCCGATGAACTGACTGGCTTGTGCTATGTTGGGAACCAAAAC  
 CTAGATGCCCTCACTGGCTTTGTGGTGGCTCCTCTCTTTACGTATTTGGTATTGGAACGCTGTTCATTG  
 CGGCGGGTGTGGTGGCTTATTCAAATTCGGTCCAATCTTCAAAAAGACGGGACAAAGACAGACAAGTT  
 GAAAGGCTAATGGTCAAGATCGGGTCTTCTCAGTACTGTACACGGTTCCTGCAACCTGTGTGATTGCC  
 TGTATTTCTATGAAATCTCAAACCTGGGCACTCTTTCGATATTCTGCAGATGACTCAAACATGGCAGTTG  
 AAATGTTGAAATTTTTATGTCTTTGCTCGTGGGCATCACTTCAGGCATGTGGATTTGGTCTGCCAAAAC  
 TCTTCACACGTGGCAAAGTGTCTAACCGATTGGTGAATTCTGGGAAGGTAAGAGAGAGAAGAGGGGG  
 AATGGTTGGTGAAGCCAGGAAAAGGCAACGAGACTGTGGTATAAGACTAGCCGGCTTCTCGTTCCTCA  
 TTGTGAAGGAAGTGTGAGGGAATCTCAGTTTGAACAACTTAGAAACACTTCAGCCACACACACCCA  
 CGTCAGCCACCACCCTCACCAACTCAGCATCAGAAGACCAATGGCTTCACTGCAGACTTTGGAATGG  
 TCCAAAATGGAAGCCAGTTAGAGTTTTCAAAGCTGTGAAAAATCAAATGTTGATCACTTTAGCAGG  
 TCACAGCTTGGAGTCCGTGGAGGTCCTCGCTAGATTCCTGAAGCCAGGGTGATAGTGTGCTCCTACT  
 GGGTGGGATTTCAACTGTGAGTTGATAACATGCAAGGAGAAAAGATTAATTTTAAACCCCTTTAAATTT  
 TAAATAGTAACTAGGCTTGCAGATAGCAAAGTATCTATAAACTGGAATGCTGGGTGGGAGACGT  
 GTTGCAGAGTTTATAGTTTGGCTGGTCTAACATAAATCTTCTGGCCTACACTGTCTGCTGTTTAGAA  
 CTCTGTAGCGCACTCCCAAGAGGTGGTGTCAAATCCTCAGTGCCTTTGTCGTAACAGAAATGTTTGG  
 AGCAAAACAAAAGTACTGTACTAACACACGTAAGGTATCCAGTGGATTTCTCTCCTGAAATTTCAACAT  
 CCCTAATTTCTAGGCAGCCCTGTTTTCTCACTTTAACTAATGACTCAAAAAAAAAAAGGTTATTTTTTA  
 TAGGATTTTTTTTTGCACTGCAGCATGCCTAATGAGAGGAAAAGGGAAGGTGATTCACTTTCTGACAATC  
 ACTTAATTCAGAGAAAAATGAGATTTGCTAAGTTGACTTACCTTACCGACCTTAGAGACCTATTGATTA  
 AGCAATGTTAAGCAATTGGGACTTAAAATATTTTGTGTTGATTGCATCTAGGCAGACGCCAGTCTG  
 GAAGAAGTAAATGTTAAATTTCTGGCACTTTGCATTACACAGATTAAGTGTGTAATTTGTGTGTG  
 CAATTACAATTAAGACACATTCTGGACCATGAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_008055  
**Insert Size:** 1614 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC015256</a> , <a href="#">AAH15256</a>
<b>RefSeq Size:</b>	2989 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	14366
<b>UniProt ID:</b>	<a href="#">Q61088</a>
<b>Cytogenetics:</b>	7 49.32 cM
<b>Gene Summary:</b>	Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin (CTNNB1) canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin (CTNNB1) and activation of Wnt target genes. Plays a critical role in retinal vascularization by acting as a receptor for Wnt proteins and norrin (NDP). In retina, it can be both activated by Wnt protein-binding, but also by a Wnt-independent signaling via binding of norrin (NDP), promoting in both cases beta-catenin (CTNNB1) accumulation and stimulation of LEF/TCF-mediated transcriptional programs. 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 Wnt5A stimulates PKC activity via a G-protein-dependent mechanism.[UniProtKB/Swiss-Prot Function]