

## Product datasheet for **MG223304**

### **Fzd8 (NM\_008058) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fzd8 (NM_008058) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fzd8
Synonyms:	Fz8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG223304 representing NM\_008058  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGTGGGGTTACCTGTTGGAAGTGACCTCGCTCCTAGCCGCCTTGGCGGTGCTACAGCGCTCTAGCG  
 GCGCTGCCGCGGCTTCGGCCAAGGAGCTGGCGTGCCAAGAGATCACGGTGCCGTTGTGCAAAGGCATCGG  
 TTACAACACTACTTACATGCCAACCAAGTTCAACCACGACACGCAAGATGAGCGGGCTAGAGGTGCAC  
 CAGTTTTGGCCGCTGGTGGAGATACAGTCTCCCCGGACCTCAAGTTCTTTCTGTGTAGCATGTACACGC  
 CCATCTGCCTGGAGGACTACAAGAAGCCTCTGCCGCTTGTGCTCTGTGTGTAACGCGCCAAGGCCGG  
 CTGCGCGCCGCTCATGCGCCAGTACGGCTTTGCTTGGCCTGACCGCATGCGCTGCGATCGGTTGCCGGAG  
 CAGGGCAACCCGGACACTCTGTGCATGGACTACAACCGCACCGACCTCACCACGGCCGCGCCAGCCAC  
 CGCGCCGCTGCCTCCGCCGCTCCTCCGGCGAGCAGCCGCCCTCTGGCAGCGGCCACAGCCGCCCGCC  
 AGGGGCCAGGCCCCACATCGTGGCGGCAGCAGTAGGGGCAGCGGGACGCGCGGCTGCGCCCCCTTCG  
 CGCGGGCGGAAGCGAGGCCCTTGGTGGCGGCGCTGCTCCCTGCGAGCCGGGGTCCAGTGCCGCGCGC  
 CCATGGTGGAGCGTGTCCAGCGAACGCCACCCGCTCTACAACCGCTCAAGACCGGCCAGATCGCCAACTG  
 TGCGCTGCCCTGCCACAACCCCTTTTAGCCAGGATGAGCGCGCCTTACCCTTCTTGGATCGGCCTG  
 TGGTGGTGTCTGCTTCTGCTCCACCTTCGCCACTGTCTACCTTCTCATCGATATGGAGCGCTTTA  
 AGTACCCGGAACGGCCCATCATATCTCTCCGCTGTTACCTCTTGTGTCTGTGCGGTACCTGGTGGC  
 CCTGGTGGCAGGACATGAGAAAGTGGCTGCAGCGCGCGCTCCGGGTGCTGGCGGAGCTGGGGGTGGC  
 GCGCGCGCGCGCGGCTGGCGCAGGGGCAGCGGGAGCGGGGCGAGCAGCCGGCGCGCGCGGAGT  
 ACGAGGAGCTGGGTGCAGTCGAGCAGCATGTTGCTATGAAACCACTGGCCCCGCGCTGTGCACGGTGGT  
 CTTTCTCCTTGTCTACTTTTTTGGCATGGCCAGCTCCATCTGGTGGTAATCCTGTGCTCACGTGGTTC  
 TTGGCAGCTGGCATGAAGTGGGGTAATGAGGCCATAGCAGGCTACTCGCAGTACTTCCACCTGGCCGCT  
 GGCTTGTGCCAGCGTCAAGTCCATCGCGGTGCTGGCGCTCAGCTCCGTAGACGGCGACCCGGTGGCGGG  
 CATCTGTACGTGGGCAACCAGAGCCTTGACAACCTACGCGGCTTTGTGCTGGCGCCACTGGTTATCTAC  
 CTCTTCATTGGGACTATGTTTCTGTTAGCTGGCTTCGTGTGCTGTTCCGAATCCGTTACGTATCAAGC  
 AGCAAGGAGGCCCAACTAAGACACACAAGCTAGAAAACTCATGATCCGTTGGGCTCTTACCCTGCT  
 CTACACGGTGCCCGCTGCCGCTGTTGTCGCTGCCTTTTCTATGAGCAGCACAACCGACCGCTGGGAG  
 GCCACGCACAACCTGCCATGCCCTCGGGACCTGCAACCGGACCAGGCTCGCAGGCCGATTACGCGGTCT  
 TCATGCTCAAGTACTTCATGTGCCTAGTAGTGGGCATCACATCGGGCGTGTGGGTCTGGTCCGGCAAGAC  
 TCTGGAGTCTTGGCGCGGTTGTGCACTAGGTGCTGCTGGGCCAGCAAGGGCGCTGCAGTAGGCGCGGGC  
 GCTGGAGGCAGCGGCCCTGGGGGAGTGGACCCGGGCCGGGAGGTGGGGGACACGGCGGAGGCGGGG  
 GATCCCTCTACAGCGACGTCACTACCGCCTGACGTGGCGGTCTGGCACGGCCAGCTCTGTATCTTACCC  
 TAAGCAAATGCCATTGTCCCAGGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223304 representing NM\_008058  
 Red=Cloning site Green=Tags(s)

MEWGYLLEVTSLAALAVLQRSSGAAAASAKELACQEITVPLCKGIGYNYTYMPNQFNHDTQDEAGLEVH  
 QFWPLVEIQSPDLKFFLCSMYTPICLEDYKKPLPPCRSVCERAKAGCAPLMRQYGFAWPDRMRCDRLPE  
 QGNPDTLCMDYNRDLDLTAAPSPPRRLPPPPPPGEQPPSGSGHSRPPGARPPHRGGSSRGSDAAAAPP  
 RGGKARPPGGGAAPCEPGCQCRAPMVSVSSEHPLYNRVKTGQIANCALPCHNPFSSQDERAFTVFWIGL  
 WSVLCFVSTFATVSTFLIDMERFKYPERPIIFLSACYLFSVGYLVRLVAGHEKVACSSGAPGAGGAGGA  
 GAAAAAGAGAAGAGASSPGARGEYEELGAVEQHVRVYETTPALCTVVFLLVYFFGMASSIWWVILSLTWF  
 LAAGMKWGNEAIAGYSQYFHLAAWLVPSVKSI AVLALSSVDGDPVAGICYVGNQSLDNLRGFVLAPLVIY  
 LFIGTMFLLAGFVSLFRIRSVIKQGGPTKTHKLEKLMIRLGLFTVLVYVPAVVVACLFYEQHNRPRWE  
 ATHNCPCLRDLPDQARRPDYAVFMLKYFMCLVVGITSGVWVWSGKTLLESWRALCTRCCWASKGAAGVAG  
 AGGSGPGSGPGPGGGGGHGGGGSLYSDVSTGLTWRSGTASSVSYPQMPLSQV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_008058

ORF Size: 2055 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](mailto: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\\_008058.2](#), [NP\\_032084.2](#)

**RefSeq Size:** 3346 bp

**RefSeq ORF:** 2058 bp

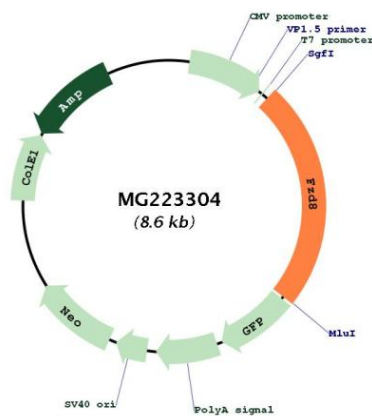
**Locus ID:** 14370

**UniProt ID:** [Q61091](#)

**Cytogenetics:** 18 4.91 cM

**Gene Summary:**

Receptor for Wnt proteins. Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes (By similarity). The beta-catenin canonical 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. Coreceptor along with RYK of Wnt proteins, such as WNT1.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MG223304