

## Product datasheet for **MG209002**

### **Fzd7 (NM\_008057) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fzd7 (NM_008057) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fzd7
Synonyms:	Fz7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG209002 representing NM\_008057  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGGGCCCGGCACGGCGGCGTGCCTCGCCCTGGGCTCTGCGCCCTGGTCTTCTCTGT  
 GCGCGCTGCCACGGACACCCGGGCTCAGCCATATCACGGCGAGAAAGGCATCTCGGTACCGACCACGG  
 CTTCTGCCAGCCATCTCCATCCGTTGTGCACGGATATCGCCTACAACCAGACCATCTGCCAACCTG  
 CTGGGCCACAGAACCAAGAGGACGCGGGCCTCGAGGTGCACCAGTTCTACCCTCTGGTAAAGGTGCAGT  
 GTTCTCTGAGCTACGCTTCTTCTATGCTCTATGTACGCACCCGTGTGCACCGTCTCGACCAAGCCAT  
 TCCTCCGTGCCGTTCTTGTGCGAGCGCGCCGACAGGGCTGCGAGGCGCTCATGAACAAGTTCCGCTTC  
 CAGTGGCCAGAGCGGTTGCGCTGCGAGAAGTCCAGTGCACGGTCCCGGCGAGATCTGCGTGGGGCAGA  
 ACACGTCGACGGCTCCGGGGCGCGGGCGCAGTCCCACCGCTACCCTACTGCTCCCTACCTGCCAGA  
 CCCACCTTCACTGCGATGTCCCCTCAGATGGCAGAGGCGCTTGTCTTCCCCTTCTCGTGTCCGCGC  
 CAGCTCAAGGTGCCCCCTACCTGGGCTACCGTCTCCTAGGTGAGCGTACTGCGGTGCCCGTGTGAGC  
 CGGGCCGTGCTAACGGCCTCATGTACTTTAAAGAAGAGGAGAGACGGTTCGCCCGCCTCTGGGTGGGTGT  
 GTGGTCACTGCTGTGCTGCGCCTCGACGCTTTCACGGTGTCTCACCTACCTAGTGGACATGCGTCCGCTT  
 AGCTATCCAGAGCGACCCATCATCTTCTGTGGGTTGCTACTTCATGGTGGCAGTGGCGCACGTGGCAG  
 GCTTCTGCTAGAGGACCGTCCCGTGTGCGTGGAGCGCTTCTCGGACGATGGCTACCGCACGGTGGCGCA  
 GGGACCAAGAAGGAGGGCTGCACCATCTTTCATGGTGTCTTACTTCTCGGTATGGCCAGCTCCATC  
 TGGTGGGTCACTTGTCCCTCACTTGGTCTTCCGAGTGGCAGTGAAGTGGGGCCAGGACCCATCGAGG  
 CCAACTCGCAGTACTTTCATCTGGCCGCTGGGCTGTCCAGCGGTCAAGACAATCACCATTTGGCCAT  
 GGGCCAGGTGGATGGTGACCTACTCAGTGGAGTGTGCTACGTGGGCTGTCTAGTGTGGATGCATTGCGG  
 GGCTTCTGCTGGCGCCCTTGTTCGTCTACCTTTCATCGGGACGTCCTTCTGTGGCCGCTTTGTGT  
 CTCTTTTCGCATCCGCACCATCATGAAGCAGCAGCGCACCAAGACAGAGAAGCTGGAGAAGCTGATGGT  
 GCGCATCGGCGTCTTACGCGTCTACACGGTCCCGGCCACCATCGTGTGGCCTGCTACTTTTATGAG  
 CAGGCCTCCGAGAGCACTGGGAACGCACCTGGCTCCTGCAGACTTGAAGAGCTACGCTGTGCCCTGCC  
 CTCCGGGCCACTTCTCTCCATGAGCCCCGACTTACAGTCTTCATGATCAAGTACCTGATGACCATGAT  
 CGTGGGCATCACTACGGCTTCTGGATCTGGTCCGGCAAGACCCTGCAGTCATGGCGTCGCTTCTACCAC  
 AGACTCAGCCACAGCAGCAAGGGGAACTGCGGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209002 representing NM\_008057  
 Red=Cloning site Green=Tags(s)

MRGPGTAASHSPGLCALVLLCALPTDTRAQPYHGEKGISVDPDHGFCQPISIPLCTDIAYNQITLPNL  
 LGHTNQEDAGLEVHQFYPLVKVQCSPFLRFFLCMYAPVCTVLDQAIPPCRSLCERARQGCALMKNKFGF  
 QWPERLRNENFPVHGAGEICVGNQNTSDGSGGAGGSPTAYPTAPYLPDPPFTAMSPSDGRGRLSFPFSCPR  
 QLKVPYPYLGYRFLGERDCGAPCEPGRANGLMYFKEEERRFARLWVGWVSVLCCASTLFTVLTYLVDMRRF  
 SYPERPIIFLSGCFMVAHVAGFLLDRAVCVERFSDDGRTVAQGTKEGCTILFMVLYFFGMASSI  
 WWVILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKITITLAMQVDGDLISGVCYVGLSSVDALR  
 GFVLAFLFVYLFIGTSFLLAGFVSLFRIRTIMKHDGKTEKLEKLMVRIGVFSVLYTVPATIVLACYFYE  
 QAFREHWERTWLLQTCKSYAVCPPGHFSPMSPDFTVFMIKYLMTIMVIGITTFWVWISGKTLQSWRRFYH  
 RLSHSSKGETAV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<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>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_008057.2</a>, <a href="#">NP_032083.2</a></p>
<b>RefSeq Size:</b>	<p>4171 bp</p>
<b>RefSeq ORF:</b>	<p>1719 bp</p>
<b>Locus ID:</b>	<p>14369</p>
<b>UniProt ID:</b>	<p><a href="#">Q61090</a></p>
<b>Cytogenetics:</b>	<p>1 30.08 cM</p>
<b>Gene Summary:</b>	<p>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]</p>