

## Product datasheet for **RG209717**

### Frizzled 10 (FZD10) (NM\_007197) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 10 (FZD10) (NM_007197) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frizzled 10
Synonyms:	CD350; FZ-10; Fz10; FzE7; hFz10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209717 representing NM\_007197  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCGCCCGGCCCCCGCTGTGGCTGGTCTGCAGGTGATGGGCTCGTGCGCCGCATCAGCTCCA  
 TGGACATGGAGCGCCCGGGCAGCGCAAATGCCAGCCATCGAGATCCCGATGTGCAAGGACATCGGCTA  
 CAACATGACTCGTATGCCAACCTGATGGGCCACGAGAACCAGCGCAGGAGCCATCCAGTTGCACGAG  
 TTCGCGCCGCTGGTGGAGTACGGCTGCCACGGCCACCTCCGCTTCTTCTGTGCTCGCTGTACGCGCCGA  
 TGTGCACCGAGCAGGTCTCTACCCCATCCCGCCTGCCGGTCACTGTGCGAGCAGGCCCGGCTCAAGTG  
 CTCCCGATTATGGAGCAGTTCAACTTCAAGTGGCCGACTCCCTGGACTGCCGAAACTCCCAACAAG  
 AACGACCCCAACTACCTGTGCATGGAGGCGCCAAACAACGGCTCGGACGAGCCACCCGGGGCTCGGGCC  
 TGTTCCCGCCGCTGTTCCGGCCGACGGCCCCACAGCGCGCAGGAGCACCCGCTGAAGGACGGGGGCC  
 CGGGCGCGCGGCTGCGACAACCCGGGCAAGTTCCACCACGTGGAGAAGAGCGCGTCTGCGCGCCGCTC  
 TGCACGCCCGGCTGGAGGTACTGGAGCCGCGAGGACAAGCGTTCGCAAGTGGTCTGGCTGGCCATCT  
 GGGCGGTGCTGTGCTTCTTCTCCAGCGCTTACCCTGCTCACCTTCTCATCGACCCGGCCCGCTTCCG  
 CTACCCCGAGCGCCCATCATTTCTTCTCATGTGCTACTGCGTCTACTCCGTGGGCTACCTCATCCGC  
 CTCTTCGCGCGCGCCGAGAGCATCGCCTGCGACCGGGACAGCGCCAGCTCTATGTCATCCAGGAGGGAC  
 TGGAGAGCACCGGCTGCACGCTGGTCTTCTGCTCTACTACTTCCGCATGGCCAGCTCGCTGTGGTG  
 GGTGGTCTCACGCTCACCTGGTCTTCTGGCCCGGCAAGAAGTGGGGCCAGGAGCCATCGAAGCCAAC  
 AGCAGCTACTTCCACTGGCAGCTGGCCATCCCGCGGTGAAGACCATCTGATCTGGTCAATCGCGCA  
 GGTGGCGGGGACGAGCTCACCGGGTCTGCTACGTGGGAGCATGGAGCTCAACGCGCTCACCGGCTT  
 CGTGCTCATTCCCTGGCTGCTACCTGGTCACTGGCAGCTCCTCATCCTCTCGGGCTTCTGGCCCTG  
 TTCCACATCCGGAGGGTATGAAGACGGCGGCGAGAACACGGACAAGCTGGAGAAGCTCATGGTGCCTA  
 TCGGGCTTCTCTGTGCTGTACACCGTCCCGCCACCTGTGTGATCGCCTGCTACTTTTACGAACGCT  
 CAACATGGATTACTGGAAGATCTGGCGGCGCAGCACAAGTGCAAAATGAACAACAGACTAAAACGCTG  
 GACTGCCTGATGGCCGCTCCATCCCGCGGTGGAGATCTTATGGTGAAGATCTTTATGCTGCTGGTGG  
 TGGGGATACCAGCGGATGTGGATTTGGACCTCAAGACTCTGCAGTCTGGCAGCAGGTGTGCAGCCG  
 TAGGTTAAAGAAGAAGAGCCGGAGAAAACCGCCAGCGTATCACCAGCGGTGGGATTTACAAAAAGCC  
 CAGCATCCCAGAAAACCTACCAGGGAATATGAGATCCCTGCCAGTCGCCACCTGCGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209717 representing NM\_007197  
 Red=Cloning site Green=Tags(s)

MQRPGPRLWLVLQVMGSCAAISSMDMERPGDGKQPIEIPMCKDIGYNMTRMPNLMGHENQREAAIQLHE  
 FAPLVEYGCHGLRFFLCSLYAPMCTEQVSTPIPACRMCEQARLKCSPIMEQFNFKWPDSDLDCRKLPNK  
 NDPNYLCMEAPNNGSDEPTRGSLFPPLFRPQRPHSAQEHLKDDGGPGRGGCDNPGKFHHVEKSASCAPL  
 CTPGVDDVYWSREDKRFVWVLAIWAVLCFFSSAFTVLTFLIDPARFRYPERPIIFLSMCYCVYVGYLIR  
 LFAGAESIACDRDSGQLYVIQEGLESTGCTLVFLVLYFGMASSLWWWVLTWFLAAGKKWGHEAIEAN  
 SSYFHAAWAIPAVKTIILVMRRVAGDELTVGCYVGSMDVNALTGFVLIPLACYLVIGTSFILSGFVAL  
 FHIRRVMKTGGENTDKLEKLMVRIGLFSVLYTVPATCVIACYFYERLNDYWKILAAQHKCKMNNQTKTL  
 DCLMAASIPAVEIFMVKIFMLLVGITSGMWIWTSKTLQSWQVCSRRLLKKKSRKPPASVITSGGIYKKA  
 QHPQKTHHGKYEIPAQSPTCV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007197

**ORF Size:** 1743 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.

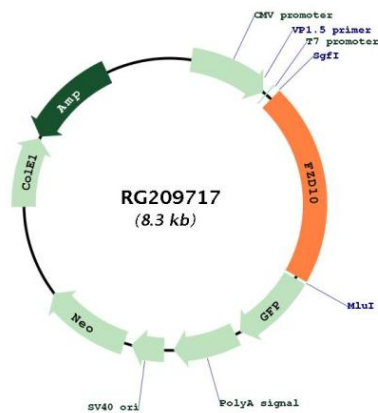
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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:	<a href="#">NM_007197.3</a>
RefSeq Size:	3260 bp
RefSeq ORF:	1746 bp
Locus ID:	11211
UniProt ID:	<a href="#">Q9ULW2</a>
Cytogenetics:	12q24.33
Domains:	FRI, Frizzled
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	This gene is a member of the frizzled gene family. Members of this family encode 7-transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of signaling proteins. Most frizzled receptors are coupled to the beta-catenin canonical signaling pathway. Using array analysis, expression of this intronless gene is significantly up-regulated in two cases of primary colon cancer. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG209717