

## Product datasheet for **RC220921**

### Frizzled 2 (FZD2) (NM\_001466) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 2 (FZD2) (NM_001466) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frizzled 2
Synonyms:	fz-2; Fz2; fzE2; hFz2; OMOD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC220921 representing NM\_001466  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGCCCGCAGCGCCCTGCCCGCCTGCTGCTGCCGCTGCTGCTGCTGCCCGCCGCGGGCCGCGCC  
 AGTTCCACGGGGAGAAGGGCATCTCCATCCCGGACCACGGCTTCTGCCAGCCATCTCCATCCCGCTGTG  
 CACGGACATCGCCTACAACCAGACCATCATGCCAACCTTCTGGGCCACACGAACCAGGAGGACGCAGGC  
 CTAGAGGTGCACCAAGTTCTATCCGCTGGTGAAGGTGCAGTCTCGCCGAAGTGCCTTCTTCTGTGCT  
 CCATGTACGCACCCGTGTGCACCGTGTGGAACAGGCCATCCCGCGTCCGCTCTATCTGTGAGCGCGC  
 GCGCCAGGGTGCAGAGCCCTCATGAACAAGTTCGTTTTTCAGTGGCCGAGCGCTGCGCTGCGAGCAC  
 TTCGCGCCACGGCGCCGAGCAGATCTGCGTCCGCCAGAACACTCCGAGGACGGAGCTCCCGCGCTAC  
 TCACCACCGCGCCGCGCCGGGACTGCAGCCGGGTGCCGGGGCACCCCGGGTGGCCGGCGCGCGCGG  
 CGCTCCCGCGCTACGCCACGCTGGAGCACCCCTTCCACTGCCCGCGCTCCTCAAGGTGCCATCTAT  
 CTAGCTACAAGTTTCTGGGCGAGCGTGATTGTGCTGCGCCCTGCGAACCTGCGCGGCCCGATGGTTCCA  
 TGTTCTTCTCACAGGAGGAGACGCGTTTCGCGCCCTCTGGATCCTCACCTGGTCCGGTGTGCTGCGC  
 TTCCACCTTCTCACTGTACCACGTAAGTGGTAGACATGCAGCGCTTCCGCTACCCAGAGCGGCATC  
 ATTTTTCTGTCGGGTGCTACACCATGGTGTGGTGGCTACATCGCGGGCTTGTGCTCCAGGAGCGCG  
 TGGTGTGAACGAGCGCTTCTCCGAGGACGTTACCGCACGGTGGTGCAGGGCACCAAGAAGGAGGGCTG  
 CACCATCTTCTCATGATGCTCTACTTCTCAGCATGGCCAGTCCATCTGGTGGTCTCCTGTGCTC  
 ACCTGGTCTTCCGAGCCGGCATGAAGTGGGGCCACGAGGCCATCGAGGCCAACTCTCAGTACTTCCACC  
 TGCCCGCTGGCCGTGCCGGCCGTAAGACCATCACCATCCTGGCCATGGCCAGATCGACGGCGACCT  
 GCTGAGCGCGTGTGCTTCGTAGGCCTCAACAGCCTGACCCGCTGCGGGGCTTGTGCTAGCGCCGCTC  
 TTCGTGTACCTGTTTCATCGGCACGTCCTTCTCCTGCGCGGCTTGTGCTGCTTCCGATCCGACCA  
 TCATGAAGCACGACGGCACCAAGACCGAAAAGTGGAGCGGCTCATGGTGCATCGCGCTTCTCCGT  
 GCTCTACACAGTCCCGCCACCATCGTATCGCTTGTACTTCTACGAGCAGGCTTCCGCGAGCACTGG  
 GAGCGCTCGTGGGTGAGCCAGCACTGCAAGAGCCTGGCCATCCCGTCCCGGCGCACTACACGCCGCGCA  
 TGTGCCCCGACTTACGGTCTACATGATCAAATACCTCATGACGCTCATCGTGGGCATCAGTCCGGCTT  
 CTGGATCTGGTCCGGCAAGACGCTGCACCTCGTGGAGGAAGTTCTACACTCGCCTACCAACAGCCGACAC  
 GGTGAGACCACCGTG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC220921 representing NM\_001466  
 Red=Cloning site Green=Tags(s)

MRPRSALPRLLLPLLLLPAAGPAQFHGEKGISIPDHGFCQPISIPLCTDIAYNQTIMPNLLGHTNQEDAG  
 LEVHQFYPLVKVQCSPFLRFFLCSMYAPVCTVLEQAIPPCRISICERARQGCEALMNKFGFQWPERLRCEH  
 FPRHGAEQICVGNHSEHGAPALLTAPPPLQPGAGGTPGGPGGGGAPPRYATLEHPFHCPVRLKVPVSY  
 LSYKFLGERDCAAPCEPARPDGSMFFSQEETRFARLWILTWSVLCSTFFVTVTYLVDMQRFRYPERPI  
 IFLSGCYTMVSVAYIAGFVLQERVVNERFSEDGYRTVVQGTKEGCTILFMMLYFFSMASIIWWVILSL  
 TWFLAAGMKWGHEAIEANSQYFHAAWAVPAVKITITILAMQIDGDLISGVCFVGLNSLDPLRGLVLAFL  
 FVYLFIGTSFLLAGFVSLFRIRTIMKHDGKTEKLERLMVRIGVFSVLYTVPATIVIACYFYEQAFREHW  
 ERSWVSQHCKSLAIPCAHYTPRMSPDFVYMIKYLMTLIVGITSGFWIWSGKTLHSWRKFYTRLTNSRH  
 GETTV

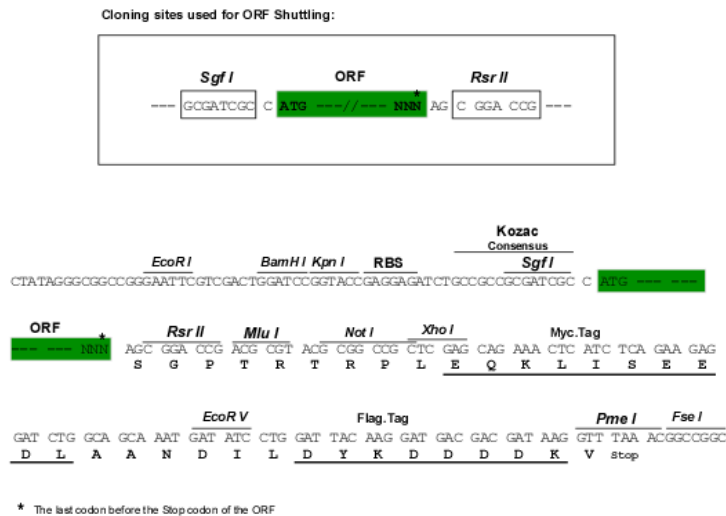
SGP**TRTRRL**EQKLISEEDLAANDILDYKDDDDK**V**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2633\\_g10.zip](https://cdn.origene.com/chromatograms/mg2633_g10.zip)

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001466

**ORF Size:** 1695 bp

**OTI Disclaimer:** 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\\_001466.4](#)

**RefSeq Size:** 1983 bp

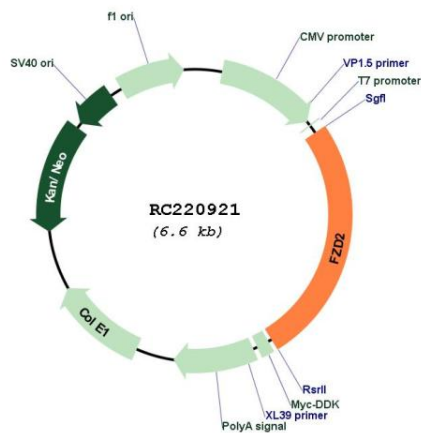
**RefSeq ORF:** 1698 bp

**Locus ID:** 2535

**UniProt ID:** [Q14332](#)

**Cytogenetics:** 17q21.31

<b>Domains:</b>	FRI, Frizzled
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<b>MW:</b>	63.4 kDa
<b>Gene Summary:</b>	This intronless gene is a member of the frizzled gene family. Members of this family encode seven-transmembrane domain proteins that are receptors for the wntless type MMTV integration site family of signaling proteins. This gene encodes a protein that is coupled to the beta-catenin canonical signaling pathway. Competition between the wntless-type MMTV integration site family, member 3A and wntless-type MMTV integration site family, member 5A gene products for binding of this protein is thought to regulate the beta-catenin-dependent and -independent pathways. [provided by RefSeq, Dec 2010]

**Product images:**


Circular map for RC220921