

Product datasheet for **RG222311**

Frizzled 8 (FZD8) (NM_031866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 8 (FZD8) (NM_031866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frizzled 8
Synonyms:	FZ-8; hFZ8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222311 representing NM_031866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTGGGGTTACCTGTTGGAAGTGACCTCGTGTGCGCCCTTGGCGCTGCTGCAGCGCTCTAGCG
 GCGCTGCGGCCGCTCGGCCAAGGAGCTGGCATGCCAAGAGATCACCGTCCGCTGTGTAAGGGCATCGG
 CTAACAACACACCTACATGCCCAATCAGTTCAACCACGACACGCAAGACGAGGCGGGCCTGGAGGTGCAC
 CAGTTCTGGCCGCTGGTGGAGATCCAGTCTCGCCGATCTCAAGTTCTTCTGTGCAGCATGTACACGC
 CCATCTGCCTAGAGGACTACAAGAAGCCGCTGCCGCCCTGCCGCTCGGTGTGCGAGCGGCCAAGGCCGG
 CTGCGCGCCGCTCATGCGCCAGTACGGCTTCGCTGGCCGACCGCATGCGCTGCGACCGGCTGCCCGAG
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 GCCGCGCCCTATGGTGAAGCGTGTCCAGCGAGCGCCACCCGCTCTACAACCGCGTCAAGACAGGCCAGAT
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 GGGGGCGCGGGCGCGCGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGG
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 GGCGGGCATCTGCTACGTGGGAACAGAGCCTGGACAACCTGCGCGGCTTCGTGCTGGCGCCGCTGGTC
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 CGTGTCTACACCGTCCCGCCGCGGTGGTGGTGCCTGCCTTCTACGAGCAGCACACCGCCCGCGC
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 CAAGACGCTGGAGTCTGGCGCTCCCTGTGCACCCGCTGCTGCTGGGCCAGCAAGGGCGCCGCGGTGGG
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 GCGGGGGGGGGCGGGCGGGCGGGGGCTCCCTCTACAGCGACGTACGACTGGCCTGACGTGGCGGT
 GGGCACGGCGAGCTCCGTGTCTTATCCAAGCAGATGCCATTGTCCCAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222311 representing NM_031866

Red=Cloning site Green=Tags(s)

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MEWGYLLEVTSLAALALLQRSSGAAAASAKELACQEITVPLCKGIGYNYTYMPNQFNHDTQDEAGLEVH
QFWPLVEIQSPDLKFFLCSMYTPICLEDYKKPLPPCRSVCERAKAGCAPLMRQYGF AWPDRMRCDLPE
QGNPDTLCMDYNRDLDLTTAAPSPRRLLPPPPGEQPPSGSGHGRPPGARPPHRGGGGRGGGGDAAPPAR
GGGGGGKARPPGGGAAPCEPGCQCRAPMVSVSSERHPLYNRVKTGQIANCALPCHNPFSSQDERAFVFW
IGLWSVLCFVSTFATVSTFLIDMERFKYPERPIIFLSACYL FVSVGYLVRLVAGHEKVACSGGAPGAGGA
GGAGGAAAGAGAAGAGAGPGGRGEYEELGAVEQHVR YETTPALCTVVFLLYFFGMASIIWWVILSLT
WFLAAGMKWGNEAIAGYSQYFHLAAWL VPSVKSI AVLALSSVDGDPVAGICYVGNQSLDNLRGFVLAPLV
IYLFITGMFLLAGFVSLFRIRSVIKQQDGPTKHKLEKLMIRLGLFTVL YTPAAVVVACL FYEQHNRRP
WEATHNCPCLRDLPDQARRPDYAVFMLKYFMCLVVGITSGVWVWSGKTLESWRS LCTRCCWASKGAAVG
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```

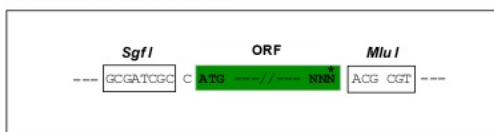
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



```

                                     Kozac
                                     Consensus
EcoR I      BamH I Kpn I      RBS      Sgf I      Asc I
CTATAGGCGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCGCCGCGGATCGCCGCGCGCCAGATCT

Hind III   Nhe I   Rsr II   Mlu I       Not I     Xho I       GFP Tag
CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -
          T   R   T   R   P   L   E   M   E   S   D   -   -   -   -

Pme I     Fse I
- - - GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT
- - - E   E   R   V   Stop
```

ACCN: NM_031866

ORF Size: 2082 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_031866.1](#), [NP_114072.1](#)

RefSeq Size: 3195 bp

RefSeq ORF: 2085 bp

Locus ID: 8325

UniProt ID: [Q9H461](#)

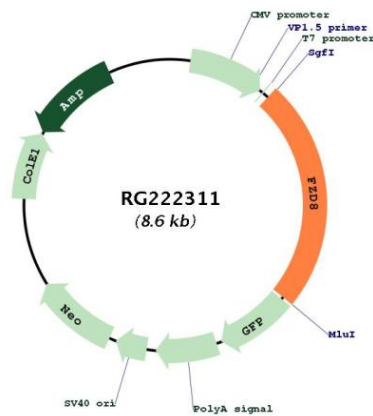
Cytogenetics: 10p11.21

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway

Gene Summary: 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 Wingless type MMTV integration site family of signaling proteins. Most frizzled receptors are coupled to the beta-catenin canonical signaling pathway. This gene is highly expressed in two human cancer cell lines, indicating that it may play a role in several types of cancer. The crystal structure of the extracellular cysteine-rich domain of a similar mouse protein has been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG222311