

Product datasheet for **RG228994**

Frizzled 6 (FZD6) (NM_001164616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 6 (FZD6) (NM_001164616) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frizzled 6
Synonyms:	FZ-6; FZ6; HFZ6; NDNC1; NDNC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG228994 representing NM_001164616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATGTTTACATTTTTGTTGACGTGTATTTTTCTACCCCTCCTAAGAGGGCACAGTCTCTTACCT
 GTGAACCAATTACTGTTCCAGATGTATGAAAATGGCCTACAACATGACGTTTTTCCCTAATCTGATGGG
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 CTTGTCGTAACCTTTGTGAGAAAGTATATTCTGATTGCAAAAAATTAATTGACACTTTTGGGATCCGATG
 GCCTGAGGAGCTGAATGTGACAGATTACAATACTGTGATGAGACTGTTCTGTAACCTTTGATCCACAC
 ACAGAATTTCTGGTCTCAGAAGAAAACAGAACAAGTCCAAAGAGACATTGGATTTTGGTGTCCAAGGC
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 CCATTACTTGGTCTTAGCTGCAGGAAGAAAATGGAGTTGTGAAGCCATCGAGCAAAAAGCAGTGTGGTT
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 CCCCAGGTTAAGAGAACAGGACTGTGGTGAACCTGCCTCGCCAGCAGCATTCCATCTCCAGACTCTCTGGG
 GAACAGGTCGACGGGAAGGGCCAGGCAGGAGTATCTGAAAGTGCAGGAGTGAAGGAAGGATTAGTC
 CAAAGAGTGATATACTGACACTGGCCTGGCACAGAGCAACAATTTGCAGGTCCCAGTTCTTCAGAACC
 AAGCAGCTCAAAGTTCACATCTCTGCTTGTTCACCCAGTTTCAGGAGTGAGAAAAGAGCAGGGAGGT
 GGTTGTCATTCAGATACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228994 representing NM_001164616
 Red=Cloning site Green=Tags(s)

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MEMFTFLLCIFLPLLRGHSFLTCEPITVPRCMKAYNMTFFPNLMGHYDQSIAAVEMEHFLPLANLECS
PNIETFLCKAFVPTCIEQIHVVPPCRKLCEKVYSDCKKLIDTFGIRWPEELECDRLQYCDVTPVTFDPH
TEFLGPQKKTEQVQRDIGFWCPRHLKTSGGQGYKFLGIDQCAPPNMYFKSDELEFAKSFIGTVSIFCL
CATLFTFLTFLIDVRRFRYPERPPIIYYSVCYSIVSLMYFIGFLLGDSTACNKADKLELGDTVVLGSONK
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VFWVSGSKTCTEWAGFFKRNRKRDPISESRRVLQESCEFFLKHNSKVKKKKHYKPSHKLKVISKSMGT
STGATANHGTSVAITSHDYLQETLTEIQTSPETSMREVKADGASTPRLREQDCGEPASPAASISRLSG
EQVDGKGQAGSVSESARSEGRISPKSDITDTGLAQSNLQVPSSEPSLKGSTLLVHPVSGVRKEQGG
GCHSDT
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164616

ORF Size: 2022 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_001164616.1](#), [NP_001158088.1](#)

RefSeq Size: 3691 bp

RefSeq ORF: 2025 bp

Locus ID: 8323

UniProt ID: [O60353](#)

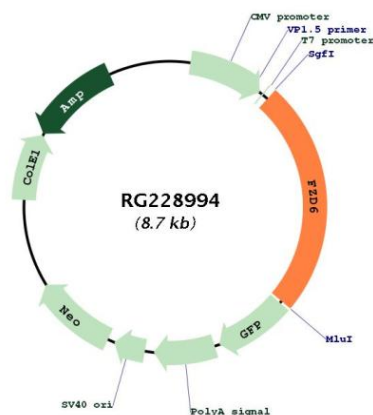
Cytogenetics: 8q22.3

Protein Families: Druggable Genome, GPCR, Transmembrane

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

Gene Summary: This gene represents a member of the 'frizzled' gene family, which encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The protein encoded by this family member contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, and seven transmembrane domains, but unlike other family members, this protein does not contain a C-terminal PDZ domain-binding motif. This protein functions as a negative regulator of the canonical Wnt/beta-catenin signaling cascade, thereby inhibiting the processes that trigger oncogenic transformation, cell proliferation, and inhibition of apoptosis. Alternative splicing results in multiple transcript variants, some of which do not encode a protein with a predicted signal peptide.[provided by RefSeq, Aug 2011]

Product images:



Circular map for RG228994

