

Product datasheet for **RG213960**

Frizzled 5 (FZD5) (NM_003468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 5 (FZD5) (NM_003468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frizzled 5
Synonyms:	C2orf31; HFZ5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213960 representing NM_003468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCGGCCTGACCCATCCGCGCCGCCCTCGTGTGTGCTGCTCCTGGCGAGCTGGTGGGCCGGG
 CGGCCCGCGTCCAAGGCCCGGTGTGCCAGGAAATCACGGTGCCCATGTGCCGCGCATCGGCTACAA
 CCTGACGCACATGCCAACCAGTTCAACCACGACACGCAGGACGAGGCGGGCCTGGAGGTGCACCAAGTTC
 TGGCCGCTGGTGGAGATCCAATGCTCGCCGACCTGCGCTTCTTCTATGCTCTATGTACACGCCCATCT
 GTCTGCCCGACTACCACAAGCCGCTGCCGCCCTGCCGCTCGGTGTGCGAGCGGCCAAGGCCGGTCTC
 GCCGCTGATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCGACCGCCTCCCGGTGCTGGGC
 CGCGACGCCGAGTCTCTGCATGGATTACAACCGCAGCGAGGCCACCACGGCGCCCCCAGGCCTTTCC
 CAGCCAAGCCCACCTTCCAGGCCCGCCAGGGGCGCCGGCTCGGGGGCGAATGCCCGCTGGGGGCC
 GTTCGTGTGCAAGTGTGCGGAGCCCTTCGTGCCATTCTGAAGGAGTACACCCGCTCTACAACAAGGTG
 CGGACGGGCCAGGTGCCAACTGCGCGGTACCCTGCTACCAGCCGCTTCAAGTCCGACGAGCGCACGT
 TCGCCACCTTCTGGATAGGCCTGTGGTCCGTGCTGTGCTTCACTCCACGTCACACAGTGCCACCTT
 CCTCATCGACATGGAACGCTTCCGCTATCCTGAGCGCCCCATCATCTTCTGTGACGCTGTACCTGTG
 GTGTGCTGGGCTTCTGGTGCCTGTGGTGTGGGCCATGCCAGCGTGGCCTGCAGCCGCGAGCACAAAC
 ACATCCACTACGAGACCAGGGCCCTGCACTGTGACCATCGTCTTCTCTGGTCTACTTCTTCCGCAT
 GGCCAGCTCCATCTGGTGGGTCACTGTGCTGCTCACCTGGTTCCTGGCCCGCCGATGAAGTGGGGCAAC
 GAGGCCATCGCGGGCTACGCGCAGTACTCCACCTGGTGCCTGGCTCATCCCCAGCGTCAAGTCCATCA
 CGGCACTGGCGCTGAGCTCCGTGGACGGGACCCAGTGGCCGGCATCTGCTACGTGGGCAACAGAACCT
 GAACTCGCTGCGCGGCTTCGTGCTGGGCCCGCTGGTGTCTACCTGCTGGTGGGACGCTTCTTCTGCTG
 GCGGGCTTCGTGCTGCTTCCGCATCCGACGCTCATCAAGCAGGGCGGCACCAAGACGGACAAGCTGG
 AGAAGCTCATGATCCGCATCGGCATCTTACGCTGCTCTATACGGTCCCCGCGCAGCATTGTGGTGGCCTG
 CTACCTGTACGAGCAGCACTACCGCAGAGCTGGGAGGCGGCGCTCACCTGCGCCTGCCCGGGCCACGAC
 ACCGGCCAGCCGCGGCCAAGCCCGAGTACTGGTGTGCTCATGCTCAAGTACTTATGTGCTGTTGGTGG
 GCATCACGTGGGCGTCTGGATCTGGTGGGCAAGACGGTGGAGTGTGGCGGCTTCCACGAGCCGCTG
 CTGCTGCCGCCCGCGGCCGACCAAGAGCGGGGCGCCATGGCCGAGGGGACTACCCCGAGGGCAGC
 GCCGCGCTCACAGGACGACCGGGCCCGGGCCCGCCGCCACCTACCACAAGCAGGTGCTCCTGTGCG
 ACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213960 representing NM_003468
 Red=Cloning site Green=Tags(s)

MARPDPSAPPSLLLLLLAQLVGRAAAASKAPVCQEITVPMCRGIGYNLTHMPNQFNHDTQDEAGLEVHQF
 WPLVEIQCPDLRFFLCSMYTPICLPDYHKPLPPCRSVCERAKAGCSPLMRQYGFAPPERMSCDRLPVLG
 RDAEVLCMDYNRSEATTAPRPFPAKPTLPGGPAPASGGGEPAGGPFVCKCREPFVPIKESHPLYNKV
 RTGQVPNCAVPCYQPSFSADERTFATFWIGLWSVLCFISTSTTVATFLIDMERFRYPERPIIFLSACYLC
 VSLGFLVRLVVGHASVACSREHNIHYETTGPALCTIVFLLVYFFGMASSIWWWILSLTWFLAAGMKWGN
 EAIAGYAQYFHLAOWLIPSVKSITALALSSVDGDPVAGICYVGNQNLNSLRGFVLGPLVLVLLVGTFLLL
 AGFVSLFRIRSVIKQGGTKTDKLEKLMIRIGIFTLTYVPASIVVACYLYEQHYRESWEALTCACPGHD
 TGQPRAKPEYWVLMKLYFMCLVVGITSGVWIWSGKTVESWRRFTSRCCCRPRRGHKSGGAMAAGDYPEAS
 AALTGRTGPPGPAATYHKQVLSLHV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003468

ORF Size: 1755 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 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](#)

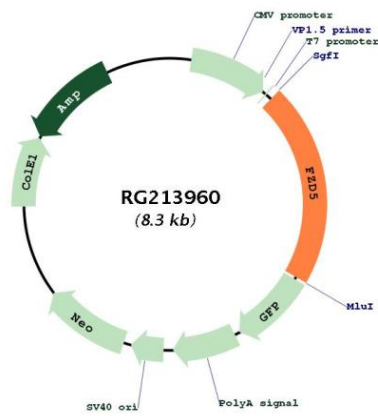
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_003468.2 , NP_003459.2
RefSeq Size:	2561 bp
RefSeq ORF:	1758 bp
Locus ID:	7855
UniProt ID:	Q13467
Cytogenetics:	2q33.3
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:	Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD5 protein is believed to be the receptor for the Wnt5A ligand. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213960