

Product datasheet for **RG233067**

FZD3 (NM_145866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FZD3 (NM_145866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FZD3
Synonyms:	Fz-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG233067 representing NM_145866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTATGACTTGGATTGTCTTCTCTCTTTGGCCCTTACTGTGTTTCATGGGCATATAGTGGGCACA
 GTTTGTTTTCTTGGAACCTATTACCTTGAGGATGTGCCAAGATTTGCCTTATAACTACCTTCATGCC
 TAATCTTCTGAATCATTATGACCAACAGACAGCAGCTTTGGCAATGGAGCCATCCACCCTATGGTGAAT
 CTGGATTGTTCTCGGATTTCCGGCCTTTCTTTGTGCACTCTACGCTCTATTTGTATGGAATATGGAC
 GTGTCACACTTCCTGTCGTAGGCTGTGTGAGCGGGCTTACAGTGAGTGTTCGAAGCTCATGGAGATGTT
 TGGTGTTCCTGGCCTGAAGATATGGAATGCAGTAGGTTCCAGATTGTGATGAGCCATATCCTCGACTT
 GTGGATCTGAATTTAGCTGGAGAACCAACTGAAGGAGCCCAAGTGGCAGTGCAGAGAGACTATGGTTTTT
 GGTGTCCCGAGAGTTAAAAATTGATCCTGATCTGGGTTATTCTTTTCTGCATGTGCGTGATTGTTACC
 TCCTTGTCCAAAATGTACTTCAGAAGAGAAGAACTGTCAATTTGCTCGCTATTTTCATAGGATTGATTCA
 ATCATTGGCTCTCGGCCACATTGTTTACTTTTTTAACTTTTTTGATTGATGTCACAAGATTCCGTTATC
 CTGAAAGGCCTATTATATTTTATGCAGTCTGCTACATGATGGTATCCTTAATTTTCTTCATTGGATTTTT
 GCTTGAAGATCGAGTAGCCTGCAATGCATCCATCCCTGCACAATAAAGGCTTCCACAGTGACACAAGGA
 TCTCATAATAAAGCCTGTACCATGCTTTTTATGATACTCTATTTTTTACTATGGCTGGCAGTGTATGGT
 GGGTAATCTTACCATCACATGGTTTTTACGAGCTGTGCCAAAGTGGGGTAGTGAAGCTATTGAGAAGAA
 AGCATTGCTGTTTACGCCAGTGCATGGGCATCCCGGAACTCTAACCATCATCCTTTTAGCGATGAAT
 AAAATTGAAGGTGACAATATTAGTGGCGTGTGTTTTGTTGGCCTCTACGATGTTGATGCATTGAGATATT
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 CTTACCGGGCATCTGGGAAACAACGTGGATACAAGAAGCTGCAGAGAATATCACATCCATGTCCATA
 TCAGGTTACTCAAATGAGTCGTCCAGACTTGATTCTTTCTGATGAAATACCTGATGGCTCTCATAGTT
 GGCATTCCCTCTGATTTTTGGGTTGGAAGCAAAAAGACATGCTTTGAATGGGCCAGTTTTTTTCATGGTC
 GTAGGAAAAAAGAGATAGTGAATGAGAGCCGACAGGACTCCAGGAACCTGATTTGCTCAGTCTCTCCT
 GAGGGATCCAAATACTCCTATCATAAGAAAGTCAAGGGAACTTCCACTCAAGGAACATCCACCCATGCT
 TCTTCAACTCAGCTGGCTATGGTGGATGATCAAAGAAGCAAAGCAGGAAGCATCCACAGCAAAGTGAGCA
 GCTACCACGGCAGCCTCCACAGATCACGTGATGGCAGGTACACGCCCTGCAGTTACAGAGGAATGGAGGA
 GAGACTACCTCATGGCAGCATGTCACGACTAACAGATCACTCCAGGCATAGTAGTTCTCATCGGCTCAAT
 GAACAGTCACGACATAGCAGCATCAGAGATCTCAGTAATAATCCCATGACTCATATCACACATGGCACCA
 GCATGAATCGGGTTATTGAAGAAGATGGAACCAAGTGTCT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233067 representing NM_145866
 Red=Cloning site Green=Tags(s)

MAMTWIVFSLWPLTVFMGHIGGHSLSFCEPITLRMCQDLPYNTTFMPNLLNHYDQQTAALAMEPFHPMVN
 LDCSRDFRPFALCALYAPICMEYGRVTLPCRRLCQRAYSECSKLMEMFGVPWPEDMECSRFPDCDEPYPRL
 VDLNLAGEPTEGAPVAVQRDYGFWCPRELKIDPDLGYSFLHVRDCSPPCPNMYFRREELSFARYF IGLIS
 IIICLSATLFTFL TFLIDVTRFRYPERPIIFAYAVCYMMVSLIFFIGFLLEDRVACNASIPAQYKASTVTQG
 SHNKACTMLFMILYFFTMAGSVWVILITITWFLAAVPKWGSEAIEKKALLFHASAWGIPGTLTIILLAMN
 KIEGDNISGVCFVGLYDVALRYFVLAFLCLYVVVGVSLLLAGIISLNRVRIEIPLEKENQDKLVKFMIR
 IGVFSILYLVPLLVVIGCYFYEQAYRGIWETTWIQERCREYHPCPYQVTQMSRPDLILFLMKYLMALIV
 GIPSVFWVGSKTCFEWASFFHGRRKKEIVNESRQVLQEPDFAQSLLRDPNTPIIRKSRGTSTQGTSTHA
 SSTQLAMVDDQRSKAGSIHKSIVSYHGLHRSRDGRYTPCSYRGMEEERLPHGMSRLTDHSRHSSSHRLN
 EQSRHSSIRDLSNNPMTHITHGTSMNRVIEEDG TSA

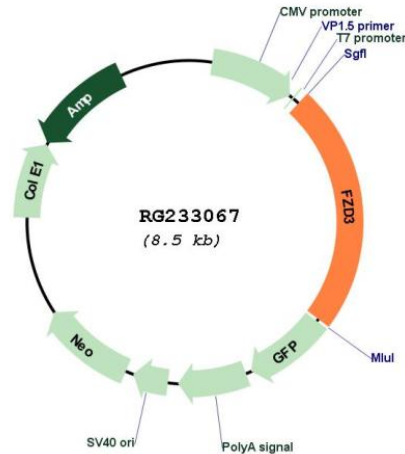
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_145866

ORF Size: 1998 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_145866.1](#), [NP_665873.1](#)

RefSeq Size:	13758 bp
RefSeq ORF:	2001 bp
Locus ID:	7976
UniProt ID:	Q9NPG1
Cytogenetics:	8p21.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	<p>This 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. The function of this protein is unknown, although it may play a role in mammalian hair follicle development. Alternative splicing results in multiple transcript variants. This gene is a susceptibility locus for schizophrenia. [provided by RefSeq, Dec 2010]</p>