

Product datasheet for **RG205325**

Frizzled 9 (FZD9) (NM_003508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 9 (FZD9) (NM_003508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frizzled 9
Synonyms:	CD349; FZD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205325 representing NM_003508
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTGGCGCCTCTGCGGGGGCGCTGCTGCTGTGGCAGCTGCTGGCGCGGGCGCGCGGCACTGG
 AGATCGGCCGCTTCGACCCGAGCGCGGGCGGGGCTGCGCCGTGCCAGGCGGTGGAGATCCCATGTG
 CCGCGGCATCGGCTACAACCTGACCCGCATGCCAACCTGCTGGGCCACACGTCGAGGGCGAGGCGGCT
 GCCGAGCTAGCGGAGTTCGCGCCGCTGGTGCAGTACGGCTGCCACAGCCACCTGCGCTTCTTCTGTGCT
 CGCTCTACGCGCCATGTGCACCGACAGGTCTCGACGCCATTCCCGCTGCCGCCCCATGTGCGAGCA
 GGCGCGCTGCGCTGCGCGCCATCATGGAGCAGTTCACTTCGGCTGGCCGGACTCGCTCGACTGCGCC
 CGGCTGCCACGCGCAACGACCCGACGCGCTGTGCATGGAGGCGCCGAGAAGCCACGCGCCGCCCCG
 CGGAGCCCCACAAGGGCTGGGCATGCTGCCCGTGGCGCCGCGGCCGCGCCCTCCCGAGACCTGGG
 CCCGGGCGCGGGCGCAGTGGCACCTGCGAGAACCAGGAGAGTTCCAGTACGTGAGAAGAGCCGCTCG
 TCGCACCGCGCTGCGGGCCCGGCTCGAGGTGTTCTGGTCCCGCGCGACAAGGACTTCGCGCTGGTCT
 GGATGGCCGTGTGGTCCGCGCTGTGCTTCTTCCACCGCTTCACTGTGCTCACCTTCTTGTGGAGCC
 CCACCGCTTCCAGTACCCCGAGCGCCCCATCATCTTCTTCCATGTGCTACAACGTCTACTCGTGGCC
 TTCTGATCCGTGCGGTGGCCGGAGCGCAGAGCGTGGCCTGTGACCAGGAGGCGGGCGCGCTCTACGTGA
 TCCAGGAGGGCTGGAGAACACGGGCTGCACGCTGGTCTTCTACTGCTCTACTTCCGGCATGGCCAG
 CTCGCTCTGGTGGTGGTCTGACGCTCACCTGGTTCCTGGTCCCGGAAGAAATGGGGCCACGAGGCC
 ATCGAGGCCACGGCAGCTATTTCCACATGGCTGCCTGGGGCTGCCCGCGCTCAAGACCATCGTCATCC
 TGACCTGCGCAAGGTGGCGGGTATGAGCTGACTGGGCTTGGTACGTGGCCAGCAGGATGCAGCAGC
 GCTCACGGGCTTCGTGCTGGTGCCTCTCTGGTACCTGGTGGTGGGAGTAGTTTCTCTGACCGGC
 TTCGTGGCCCTTCCACATCCGCAAGATCATGAAGACGGCGGCAACAACAGAGAAGCTGGAGAAGC
 TCATGGTCAAGGTCCGGGCTTCTCCATCTTACACGGTCCCGCCACCTGCGTCATCGTTGCTATGT
 CTACGAACGCCTCAACATGGACTTCTGGCGCTTCCGGCCACAGAGCAGCCATGCGCAGCGGGCCGGGG
 CCCGGAGCCGGAGGGACTGCTCGCTGCCAGGGGCTCGGTGCCACCGTGGCGGTCTTTCATGCTCAAAA
 TTTTCATGCTACTGGTGGTGGGATCACAACGGCGTCTGGGTGTGGAGCTCCAAGACTTCCAGACCTG
 GCAGAGCTGTGCTACCGCAAGATAGCAGCTGGCCGGGCCGGGCAAGGCTGCCACGCCCCGGGAGC
 TACGGAGCTGGCACGCACTGCCACTATAAGGCTCCACCGTGGTCTTGCATGACTAAGACGGACCCCT
 CTTTGGAGAACCCACACACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205325 representing NM_003508
 Red=Cloning site Green=Tags(s)

MAVAPLRGALLLWQLLAAGGAALIEIGRFDPERGRGAAPCQAVEIPMCRGIGYNLTRMPNLLGHTSQGEAA
 AELEAFAPLVQYGCHSLRFFLCSLYAPMCTDQVSTPIPACRPMCEQARLRCAPIMEQFNFGWPDSLDC
 RLPTRNDFHALCMEAPENATAGPAEPHKLGMPLVAPRPAPPPGDLGPGAGGSGTCENREKFQYVEKSR
 CAPRCGPVVEVFSRRDKDFALVWMAVWSALCFSTAFVTLFLLLEPHRFQYPERPIIFLSMCYNVYSLA
 FLIRAVAGAQSVACDQEAGALYIQEGLNTGCTLVFLLLYYFGMASSLWWWLTLTWFLAAGKKWGHEA
 IEAHGSYFHMAAWGLPALKTIVILTLRKVAGDELTLGLCYVASTDAAALTFVFLVPLSGYLVLGSSFLLTG
 FVALFHIRKIMKTGGTNTKLEKLMVKVGVFSILYTPATCVIVCYVYERLNMDFWRLRATEQPAAAAG
 PGGRRDCSLPGGSVPTVAVFMLKIFMSLVVGGITNGVWVWSSKTFQWQSLCYRKAAGRARAKACHAPGS
 YGRGTHCHYKAPTIVLHMTKTDPSLENPTL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003508

ORF Size: 1773 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_003508.2](#), [NP_003499.1](#)

RefSeq Size: 2342 bp

RefSeq ORF: 1776 bp

Locus ID: 8326

UniProt ID: [O00144](#)

Cytogenetics: 7q11.23

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 FZD9 gene is located within the Williams syndrome common deletion region of chromosome 7, and heterozygous deletion of the FZD9 gene may contribute to the Williams syndrome phenotype. FZD9 is expressed predominantly in brain, testis, eye, skeletal muscle, and kidney. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205325