

## Product datasheet for **SC117912**

### Frizzled 9 (FZD9) (NM\_003508) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 9 (FZD9) (NM_003508) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frizzled 9
Synonyms:	CD349; FZD3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117912 sequence for NM\_003508 edited (data generated by NextGen Sequencing)

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ATGGCCGTAGCGCCTCTGCGGGGGCGCTGCTGCTGTGGCAGCTGCTGGCGGGGGCGGC
GCGGCACTGGAGATCGGCCGCTTCGACCCGAGCGCGGGCGGGGCTGCGCCGTGCCAG
GCGGTGGAGATCCCATGTGCCGCGCATCGGCTACAACCTGACCCGATGCCAACCTG
CTGGGCCACACGTGCGAGGGCGAGGCGGCTGCCAGCTAGCGGAGTTCCGCGCCGTTGG
CAGTACGGCTGCCACAGCCACCTGCGCTTCTTCTGTGCTCGCTCTACGCGCCCATGTGC
ACCGACCAGGTCTCGACGCCATTCCCGCTGCCGGCCATGTGCGAGCAGGCGCGCCTG
CGTGCGCGCCCATCATGGAGCAGTTCAACTTCGGCTGGCCGACTCGCTCGACTGCGCC
CGGCTGCCACGCGCAACGACCCGACGCGCTGTGCATGGAGGCGCCGAGAACGCCACG
GCCGGCCCGGGAGCCCAAGGGCCTGGGCATGCTGCCCGTGGCGCCGCGGCCCGCG
CGCCCTCCCGGAGACCTGGGCCCGGGCGGGCGGCGGAGTGGCACCTGCGAGAACCCGAG
AAGTTCAGTACGTGGAGAAGAGCCGCTCGTGCACCCGCTGCGGGCCCGGCGTCCGAG
GTGTTCTGGTCCCGGCGGACAAGGACTTCGCGTGGTCTGGATGGCCGTGTGGTCCGCG
CTGTGCTTCTTCCACCGCCTTACTGTGCTCACCTTCTTGCTGGAGCCCACCGCTTC
CAGTACCCGAGCGCCCATCATCTTCTTCCATGTGCTACAACGTCTACTCGCTGGCC
TTCTGATCCGTGCGGTGGCCGGAGCGCAGAGCGTGGCCTGTGACCAGGAGGCGGGCGCG
CTCTACGTGATCCAGGAGGCTGGAGAACACGGGCTGCACGCTGGTCTTCTACTGCTC
TACTACTTCGGCATGGCCAGCTCGCTCTGGTGGTGGTCTGACGCTCACCTGGTTCTG
GCTGCCGGGAAGAAATGGGGCCACGAGGCCATCGAGGCCACGGCAGCTATTTCCACATG
GCTGCCTGGGGCTGCCCGCGCTCAAGACCATCGTCATCCTGACCCTGCGCAAGTGGCG
GGTGATGAGCTGACTGGGCTTGGTACGTGGCCAGCAGGATGCAGCAGCGCTCACGGGC
TTGCTGTGGTGGCCCTCTCTGGCTACCTGGTGTGGCAGTAGTTTCTTCTGACCGGC
TTCGTGGCCCTTCCACATCCGCAAGATCATGAAGACGGCGGACCAACACAGAGAAG
CTGGAGAAGTCTATGGTCAAGATCGGGTCTTCTCCATCCTCTACACGGTGGCCGCCACC
TGCGTCATCGTTTGTATGTCTACGAACGCTCAACATGGACTTCTGGCGCCTTCGGGCC
ACAGAGCAGCCATGCGCAGCGCGCGGGGCCGAGGCCGAGGGACTGCTCGTGCCA
GGGGGCTCGGTGCCACCGTGGCGGTCTTATGCTCAAAATTTTTCATGCTACTGGTGGT
GGGATCACCAGCGCGCTGCGGTGTGGAGCTCAAAGACTTCCAGACTGGCAGAGCCTG
TGCTACCGCAAGATAGCAGCTGGCCGGGCCGGCCAAAGGCTGCCGCGCCCCGGGAGC
TACGGACGTGGCAGCACTGCCACTATAAGGCTCCACCGTGGTCTTGACATGACTAAG
ACGGACCCTCTTTGGAGAACCACACACCTTAG
    
```

Clone variation with respect to NM\_003508.2  
9 g=>a

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_003508 unedited
CGCNAACTTTGGTTTNAATANACNANATTCAGGAGAGGGNCGGAACGCCAGTGTGTTGGG
TATCTGCAGATTTTCGGCTTGGGCTCCCGGATGGCCGTAGCGCCTCTGCGGGGGCGCT
GCTGCTGTGGCAGCTGCTGGCGGCGGGCGCGGCACTGGAGATCGGCCGCTTCGACCC
GGAGCGCGGGCGCGGGCTGCGCCGTGCCAGGCGGTGGAGATCCCATGTGCCGCGGCAT
CGGCTACAACCTGACCCGATGCCAACCTGCTGGGCCACACGTGCGAGGGCGAGGCGGC
TGCCGAGTAGCGGAGTTGCGGCCGCTGGTGCAGTACGGCTGCCACAGCCACTGCGCTT
CTTCTGTGCTCGCTCTACGCGCCATGTGACCCGACCAGGTCTCGACGCCCATTCGGC
CTGCCGGCCCATGTGCGAGCAGGCGCGCTGCGCTGCGCGCCCATCATGGAGCAGTTCAA
CTTCGGCTGGCCGACTCGCTCGACTGCGCCCGCTGCCACGCGCAACGACCCGACGCG
GCTGTGCATGGAGGCGCCGAGAACGCCACGGCCGGCCCCGCGGAGCCCAAGGGCCT
GGGCATGCTGCCCGTGGCGCCGCGGCCCGCGCCCTCCCGGAGACTGGGCCGGGGCGC
GGGCGGCACTGGCACCTGCGAGAACCCGAGAAGTTCCAGTACGTGGAGAAGAGCCGCTC
GTGCGCACCGCTGCGGGCCCGGCGTCCGAGGTGTTCTGGTCCCGGCGGACAAGGACTT
CGCGCTGGTCTGGATGGCCGTGTGGTGGCGCTGTGCTTCTTNCACCGNCTTCACTGT
GCTCACCTTCTGTGGAGCCCCACCGTTNCAGTACCCGAGCGCCCCATCAT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003508 unedited GATCGACAACTTGTATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGC TGGAAATTCGGCTTTGTGTGGCTAGAGGTGTGTGGGTTCTCAAAGAGGGGTCCGTCTTA GTCATGTGCAAGACCACGGTGGGAGCCTATAGTGGCAGTGCCTGCCACGTCCGTAGCTC CCGGGGCGCGGCAGGCCTTGGCCCGGGCCCGCCAGCTGCTATCTTGCGGTAGCACAGG CTCTGCCAGGTCTGAAAAGTCTTGAGACTCCACACCCAGACGCCGCTGGTATCCCCACC ACCAGTGACATGAAAATTTTGGAGCATGAAGACCGCCACGGTGGGCACCGAGCCCCCTGGC AGCGAGCAGTCCCTCCGGCCTCCGGGCCCGGGCCGCTGCGCATGGCTGCTCTGTGGCCC GAAGGCGCCAGAAGTCCATGTTGAGCGTTCGTAGACATAGCAAACGATGACGCAGGTGG CGGGCACCGTGTAGAGGATGGAGAAGACCCCGATCTTGACCATGAGCTTCTCCAGCTTCT CTGTGTTGGTGCCCGCCGTCTTCATGATCTTGCGGATGTGGAAGAGGGCCACGAAGCCGG TCAGGAGGAACTACTGCCAGCACCAGGTAGCCAGAGAGGGGCACCGACGAAGCCCG TGAGCGCTGCTGCATCCGTGCTGGCCACGTAGCAAAGCCAGTCAGCTCATCCCCGCCA CCTTGCGCAGGGTCAGGATGACGATGGTCTTGAGCGCGGGCAGGCCCCAGGCAGCCATGT GGAAATAGCTGCCGTGGGCTCGATGGCCTCGTGCCCCATTTCTCCCGCAGCCAGGAAC CAGTGAGCGTCAGGACCCACCCAGAGCGAGCT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003508
<b>Insert Size:</b>	2000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_003508.2, NP_003499.1</u>
<b>RefSeq Size:</b>	2342 bp
<b>RefSeq ORF:</b>	1776 bp
<b>Locus ID:</b>	8326
<b>UniProt ID:</b>	<u>Q00144</u>
<b>Cytogenetics:</b>	7q11.23
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane

<b>Protein Pathways:</b>	Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway
<b>Gene Summary:</b>	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]