

Product datasheet for **SC115678**

Frizzled 10 (FZD10) (NM_007197) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 10 (FZD10) (NM_007197) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frizzled 10
Synonyms:	CD350; FZ-10; Fz10; FzE7; hFz10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_007197 edited
GAATTCGGCACGAGCCAGGCCGGGCGGGCATGGGCGGGGGCCGAGCAGGGGTGGAGAGC
CGGGGCCAGCAGCAGCCCGTGCCCGGGAGCGGGCGCTGAGGGGCGCGGAGCTCCCCGC
GAGGACACGTCCAACGCCAGCATGCAGCGCCCGGGCCCCCGCCTGTGGCTGGTCTGCAG
GTGATGGGCTCGTGCCGCCCATCAGCTCCATGGACATGGAGCGCCCGGGCGACGGCAAA
TGCCAGCCCATCGAGATCCCGATGTGCAAGGACATCGGCTACAACATGACTCGTATGCC
AACCTGATGGGCCACGAGAACCAGCGAGGCGAGCCATCCAGTTGCACAGATTCGCGCCG
CTGGTGGAGTACGGCTGCCACGGCCACCTCCGCTTCTTCTGTGCTCGCTGTACGCGCCG
ATGTGCACCGAGCAGGTCTCTACCCCCATCCCCGCTGCCGGTTCATGTGCGAGCAGGCC
CGGCTCAAGTGCTCCCCGATTATGGAGCAGTTCAACTTCAAGTGCCCGACTCCCTGGAC
TGCCGGAAACTCCCCAACAGAACGACCCCAACTACCTGTGCATGGAGGCGCCAAAC
GGCTCGGACGAGCCACCCGGGCTCGGGCTGTTCCGCGCTGTTCCGGCCGACGCG
CCCCACAGCGCAGGAGCACCCTGAAGGACGGGGCCCCGGGCGGGCGGCTGCGAC
AACCCGGCAAGTCCACCAGTGGAGAAGAGCGCTCGTGCGCGCCGCTCTGCACGCC
GGCGTGGACGTACTGGAGCCGAGGACAAGCGCTTCGCAAGTGTCTGGCTGGCCATC
TGGGCGGTGCTGTGCTTCTTCTCCAGCGCTTACCCGTGCTCACCTTCTCATCGACCCG
GCCCGTTCGGCTACCCCGAGCGCCCATCATTTCTCTCCATGTGCTACTGCGTCTAC
TCCGTGGGCTACCTCATCCGCTCTTCGCGGGCGCCGAGAGCATCGCCTGCGACCGGGAC
AGCGGCCAGCTCTATGTCATCCAGGAGGACTGGAGAGCACCAGCTGCACGCTGGTCTTC
CTGGTCTCTACTACTTCGGCATGGCCAGCTCGCTGTGGTGGGTGGTCTCACGCTACC
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TTCCACCTGGCAGCCTGGGCCATCCCGCGGTGAAGACCATCTGATCCTGGTTCATGCGC
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ATATTTTTCATGCTCCACTATTTTATAAAAATAAAATATGTTCTTTAAAAAATAAAAA
AAAACTCGAC
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007197 unedited
 CGGTTTTTTATTTTTTCCGCCGGNCCCCTTCAGATTTGTATACGACTCATATAGGCGGCC
 GCGNAATTCGCACGAGCCAGGCCGGCGGGGCATGGGCGGGGGCCGAGCAGGGTGGAGAG
 CCGGGGCCAGCAGCAGCCCGTCCCGGGAGCGGGCGGCTGAGGGGCGCGGAGCTCCCCG
 CGAGGACACGTCCAACGCCAGCATGCAGCGCCCGGGCCCCCGCTGTGGCTGGTCTGCA
 GGTGATGGGCTCGTGCGCCGCCATCAGTCCATGGACATGGAGCGCCCGGGCGACGGCAA
 ATGCCAGCCCATCGAGATCCCCGATGTGCAAGGACATCGGCTACAACATGACTCGTATGCC
 CAACCTGATGGGCCACGAGAACCAGCGGAGGCAGCCATCCAGTTGCACGAGTTCGCGCC
 GCTGGTGGAGTACGGCTGCCACGGCCACCTCCGCTTCTTCTGTGCTCGCTGTACGCGCC
 GATGTGCACCGAGCAGGTCTCTACCCCCATCCCCGCTGCCGGGTGATGTGCGAGCAGGC
 CCGGCTCAAGTGTCCCCGATTATGGAGCAGTTCAACTTCAAGTGGCCCGACTCCCTGGA
 CTGCCGNAACTCCCCACAAGAACGACCCCACTACCTGTGCATGGAGGCGCCCAACAG
 GCTCGGACGAGCCACCCGGNGCTCGGGCTGTCCCGCCGCTGTCCGGCGCAGCGGCC
 CACAGCGCGCAGGACACCCGCTGAAGGACGGGGCCCGNCGCGCGGCTGCAACAACCC
 GGNNCAGTCCACCACGTGAGAAAACGCGTGTGCGCCCGCTGTCCCGCCCCGGGTGGCAGT
 GTACTGGAGCCGNAGGACAAGCGCTTCCAATGGTCTGCCTGGCCTCTGGCCGGGCTGG
 GTTTTTTTTTCAGCGCTTACACGGTTACCTTCTTATGAACCGGCCCGTTTCGGTACCCGA
 GGGCCANATNTTCTTTTTCAGGGCTATGCGGTAACGCGGGGGTACCTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007197 unedited
 TCTTTATGNNACCGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAAGACA
 TATTTTATTTTTAATAAAATAGTGGAGCATGAAAAATCATATATTACAAATATACACAC
 GCAGAAACCACTCTTTCCTGGCACTGTGAAGAGAATACTAGACAAAGTGTCTCTGCCA
 ACCTAGTGCTTCTGATCTGTTTGTGAAATCATTGTTTAAACAATAGAAAGAGTCAATA
 AGCCCTTTGGGTAACCTTTGAATGATCCTTCTCCCTTCCCCCTCCTTTCCACAAATC
 AGTCCAAAGGTCTATAACATTGGCTTGGTTCCATTAAAAAGCCACAAAATGTAGCACTG
 AAAGGTTTCTGAGGGCTGGGCCTTAGTTCTTTTGTAGGAGATTTCTTTTGTGTCTT
 TATATATAGCAAAATACTGTTTCTTTTTATTTTCAAGGAAAGAGAAAAAATGTATT
 GCACATCGTTTGAGTTCACAAATGTGAGGTTTGATGGAGGTTTCTGTCTTGCAGAGAGAC
 TATTGGTGAAGGCCAGAGTCTATTTAAGCAACTCCAAATCCACTGGGGTGTGAGGCGGG
 CCCCAGGTCCTGTCTTCTCTGCAGGGATGCCGNCCAGCACTGTGCCTTCTGGGGGG
 TGGCCTGGGATGGCTCATTGTTAACCNAGGGGAGCTTGAATTTGAAAGCAGTTAT
 CTGTCTCTTATTTGAAATGGGTAGCAAAGCCAACTCAAAACACAGATGTATATTACCG
 AGGGCTCAAAACAAAAGTTTTCTTCTGAGGGCTGGATCACTACTTTACCACAAATAGTTA
 CACAGAGGCTACTACTGGGAGAGCTTCCCTCGCTGAAAACCAACAAACAAACCNTTA
 GACATTTTCTTTTTCATGTTTACAGCTCTGATTTTACGGTAACCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_007197

Insert Size:

3000 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](#)

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_007197.2](#), [NP_009128.1](#)

RefSeq Size: 3260 bp

RefSeq ORF: 1746 bp

Locus ID: 11211

UniProt ID: [Q9ULW2](#)

Cytogenetics: 12q24.33

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: This gene is a member of the frizzled gene family. Members of this family encode 7-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. Using array analysis, expression of this intronless gene is significantly up-regulated in two cases of primary colon cancer. [provided by RefSeq, Jul 2008]