

Product datasheet for SC115479

Frizzled 4 (FZD4) (NM_012193) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 4 (FZD4) (NM_012193) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frizzled 4
Synonyms:	CD344; EVR1; FEVR; Fz-4; Fz4; FZD4S; FzE4; GPCR; hFz4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012193 edited
 GAATTCGGCAGCAGGCGGACGCGCCGGCGCCGGCTTGTGGGCTCGCCGCTGCAGCCAT
 GACCCTCGCAGCCTGTCCCTCGGCTCGGCCCGGACGTCTAAAAATCCCACACAGTCGG
 CGCAGCTGCTGGAGAGCCGGCCGCTGCCCCCTCGTCGCCGCATCACACTCCCGTCCCGGG
 AGCTGGGAGCAGCGGGCAGCCGGCGCCCGTGCAAAATGGGGTGTCTGCCAGAGCA
 GCCCAGCCGCTGCCGCTGTACCCCGATGCTGGCCATGGCCTGGCGGGGCGCAGGGCC
 GAGCGTCCCGGGGCGCCCGGGGCGTGGTCTCAGTCTGGGTTGCTCCTGCAGTTGCT
 GCTGCTCTGGGCGCGCGGGGCTTCGGGGACGAGGAAGAGCGGCGCTGCGACCCAT
 CCGCATCTCCATGTGCCAGAACCTCGGCTACAACGTGACCAAGATGCCAACCTGGTTGG
 GCACGAGCTGCAGACGGACGCCGAGCTGCAGCTGACAACTTTCACACCGCTCATCCAGTA
 CGGCTGCTCCAGCCAGCTGCAGTTCTTCTTTGTTCTGTTTATGTCCAATGTGCACAGA
 GAAGATCAACATCCCATTTGGCCATGCGCGGCATGTGTCTTTCAGTCAAGAGACGCTG
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 CTTACCTCACAAAACCCCATCCAGCCTGGGGAAGAGTGTCACTCTGTGGGAACCAATTC
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 GATGTACTTTTTTGAATGGCCAGCTCCATTTGGTGGTTATTCTGACACTCACTTGGTT
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 AGGTTTGGTGGCCTTGTCAAAATTCGGTCAAATCTTCAAAGGATGGGACAAAGACAGA



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CAAGTTAGAAAGACTGATGGTCAAGATTGGGGTGTTCCTCAGTACTGTACACAGTTCCTGC
 AACGTGTGTGATTGCCTGTTATTTTTATGAAATCTCCAAGTGGGCACTTTTTTCGGTATTC
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 CTGGCCAGGCAGGGGAAGGAAGACCAGGCGGTAGGGGACTGGTCTTGTGTTAGAGTAT
 AGAGGTTTGAATGCAGTTTTCTCATAATGTGTGAGTATTGTGTACCAAGGCAGCAT
 CTAGCAGAAAGCCAGGCATGGAGTAGGTGATCGATACTTGTCAATGACTAAATAATAACA
 ATAAAAGAGCACTTGGGTGAATCTGGAAAAAATAAAAAAAAAAATACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_012193 unedited
 TTTCCCGCCCGTTGCCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAG
 AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA
 TTCGGCACGAGGCGGACGCGGCCGGCCGGCTTGTGGGCTCGCCGCCTGCAGCCATGAC
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 AGCTGCTGGAGAGCCGGCCGCTGCCCTCGTCGCCGCATCACACTCCCGTCCCGGGAGC
 TGGGAGCAGCGCGGGCAGCCGGCGCCCGTGCAAACTGGGGGTGTCTGCCAGAGCAGCC
 CCAGCCGCTGCCGCTGCTACCCCGATGCTGGCCATGGCCTGGCGGGGCGCAGGGCCGAG
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 GCTCCTGGGGCCGGCGGGGCTTCGGGGACGAGGAAGAGCGGCCTGCGACCCCATCCG
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 CGAGCTGCAGACGGACGCCGAGCTGCAGCTGACAACTTTCACACCGCTCATCCAGTACGG
 CTGCTCCAGCCAGCTGCAGTTCTCCTTTGTTCTGTTTATGTGCCAATGTGCACAGAGAA
 GATCAACATCCCCATTGGCCCATGCNCGCATGTGTCTTCAGTCAAGAGACGCTGTGA
 ACCCGTCCCTGAAGAAATTGGNATTGCCGCGCCAGAGAGTCTGAACTGCAGCANATTCCC
 CACACAGAACGACCACNACCACATGTGCATGGAAGGGCCAGTGTGAANNAGTGCCCNT
 TACTCACAAACCCCATCCAGCCTGGGGGAAGAGTGTCACTCTGTGGAACCAATTCTGA
 TCAC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_012193 unedited
 CTTTTTTTCCAATCCCCAATGCTCTTTTATTGTTATTATTTAGTCATTGACAAGTATCGA
 TCACCTACTCCATGCCTGGCTTCTGCTAGATGCTGCCTTGGTCACACAATCACTGACAC
 ATTATGAAGAAAAGTGCATTACAAACCTCTATACTCTAACAGCAAGACCATTCCCCTACC
 GCCTGGTCTTCCCTCCCTGCCTGGGCCAGAGTCCCTGCACAACCTCCAAGACACCAGAG
 CAGAGCGTGAGTAAGGGCAGGCTCTGCCCTGGGTGCGTGTCTCCAGGGCCGTGGACAGTT
 ATGGGAAGTGTCTACAAGCAGCACAGGGAGTTCACATTTTACATTTTATAGGCAATGGAG
 TATCAGATGGAGTTAAAATGGTTCTTCTGGGGATCAATTCTCATGCTCCTGGAGCCTGAC
 CTAGAGTCTAGCCAAGGTACTCAGACTGGGCACAGCAGCAGGGGCCACCTGTGCCCACTT
 AACTTCAGTCTCAAAGCCAAGACTTTGCCTTCCAAAACATACAATCGACTTTACATGCA
 TCTTGATGTCAGAGAGCTCAAGAACCACACAAAAAAGAAAGAAAGAAAGGGAAAT
 GTCAAACTATGGGCATAAGGCTCAAACCAATTTTTAAAAAGAGGAAATGCTTACTTCC
 AGAATTTGACCACCTTTTTGGAATTTTGGAGTCCCTGGAATGTTTTTTCACAAAGTGA
 TTGAAAAAAAAAAAAAAAAAGAAAAAAAAAGCTCCCTTCTATTTTTTAAAGCATGAATT
 AATAAATAAATGTCATTGGAAAGCAATTGCTGAAACAAACAGGGTTTGGATTACAAGGGG
 AGCAACCTGTG

Restriction Sites: NotI-NotI

ACCN: NM_012193

Insert Size: 4700 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_012193.2](#), [NP_036325.2](#)

RefSeq Size: 7391 bp

RefSeq ORF: 1614 bp

Locus ID: 8322

UniProt ID: [Q9ULV1](#)

Cytogenetics: 11q14.2

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 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. This protein may play a role as a positive regulator of the Wingless type MMTV integration site signaling pathway. A transcript variant retaining intronic sequence and encoding a shorter isoform has been described, however, its expression is not supported by other experimental evidence. [provided by RefSeq, Jul 2008]