

Product datasheet for **SC316995**

Frizzled 6 (FZD6) (NM_003506) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 6 (FZD6) (NM_003506) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frizzled 6
Synonyms:	FZ-6; FZ6; HFZ6; NDNC1; NDNC10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003506 edited
 AGGACTCATTTTCAGGAAAGCCTGAAAAATGAGTAAAATAGTGAAATGAGGAATTTGAACA
 TTTTATCTTTGGATGGGGATCTTCTGAGGATGCAAAGAGTGATTCATCCAAGCCATGTGG
 TAAAAATCAGGAATTTGAAGAAAATGGAGATGTTTACATTTTTGTTGACGTGATTTTTCT
 ACCCTCCTAAGAGGGCACAGTCTTTCACCTGTGAACCAATTAAGTGTCCAGATGTAT
 GAAAAATGGCTACAACATGACGTTTTCCCTAATCTGATGGGTCAATATGACCAGAGTAT
 TGCCGCGGTGAAATGGAGCATTCTTCTCTCGCAAATCTGGAATGTTACCAAAACAT
 TGAAACTTCTCTGCAAAGCATTGTACCAACCTGCATAGAACAATTCATGTGGTTCC
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003506 unedited
GACCGCCCCCGAGTAATTGACCCAGGACTCATTTTCAGGAAAGCCTGAAAATGAGTAAA
ATAGTGAATGAGGAATTTGAACATTTTATCTTTGGATGGGGATCTTCTGAGGATGCAAA
GAGTGATTCATCCAAGCCATGTGGTAAAATCAGGAATTTGAAGAAAATGGAGATGTTAC
ATTTTTGTTGACGTGATTTTTCTACCCCTCCTAAGAGGGCACAGTCTTTCACCTGTGA
ACCAATTAAGTGTCCAGATGTATGAAAATGGCCTACAACATGACGTTTTTCCCTAATCT
GATGGGTCAATGACCAGAGTATTGCCGCGTGGAAATGGAGCATTTTCTTCTCTCGC
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ATAGAACAATTCATGTGGTCCACCTTGTGCGTAACTTTGTGAGAAAGTATATCTGAT
ATTACAATACTGTGATGAGACTGTTCTGTTACTTTTTGATCCACACACAGAATTTCTTG
GGTTCTCAGAAGAACAGAACAAAGTCCAAGAAAATTTGGATTTTTGGTGCCCAAGGATC
TTAAGACTTCTGGGGGACAGGTATATGTTCTTGGGATTGACCAAGTGGGCGCCTCCTT
GCCCTACTGTTTTTAAAGTGATGAACTTAGTTGGCAAAGATTTATTGGACAATTCAAT
ATTTGTGCTTTGGCAACTTTGTCCATTCTTTTTTTATGAGGTATAAAATCCATACC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003506 unedited GGGGTACGTGNACCGCGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGTATTCA AAGTTGTCTGTTAAAATGTGGAAAAGTAATATTTACAACATTTCCCATACAGTACATA GTTTTTGTGCCTAACAGAATGCTAAATAGAGAAAAAACCAAAAGCAATGCTAAATTG AGAGAAAAATCAAAGCATCAGAAAATCTTGCCCAAAGAATAACTTAAATAGGAAACAAA ATTAAGAAAACCTCTCAATATTTTAAAGTATGTTGTATAAAAACGTTGTGTCTTGTAT TAAGACTACCTTTTTTCCATTTGATTGGCACTAATATCGCTATCACACTTTTAAATGTT AGCAAAATCCTAGTGAGCTGCCGAAATGAATTCTACAAAATGTCTGAGAAAGGTACTGTA TAATACAAAATGTAATATTCTAAATGTTAAAAAATCAAAAGTTAAAAACAAAAATATAAG CAACTGTAAGTGGTTATAATACAATCAATGGTGGTCAAGAACATTAAGGAAAGGAAAGT CAATTGCCTTGGCCTAATATACAAAAGACTAACATTTTGTCTACTAACCCCTTAGGACA TTTTATTTTAAATATGCAGAAGGATCAGTGAGCAGCATAATAACAATCAATAGTGGACT CTTTGAGTAAGCACCTTATTTTCAGTTACATAATTTAGACTGTGAAATTCCTAANACGAG ACTATAAAAATCACACATTNTAGATGGTAAGGTATCAATAAGTGGTTTTTAAAGTTAAA TTCTATTATAAGACTTTTTTGGTATATCTTTNTTTACAGTATAAAGAAGACTATTTTA CAAATTTCTTAGAATTCAGTGTAAAAGCTACCAAAGTGCTAAAATATCACAAATAGCATGA TAAAAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_003506
OTI Disclaimer:	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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.NA
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:	<ol style="list-style-type: none"> 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:	<u>NM_003506.2</u> , <u>NP_003497.2</u>
RefSeq Size:	3768 bp
RefSeq ORF:	2121 bp
Locus ID:	8323
UniProt ID:	<u>O60353</u>
Cytogenetics:	8q22.3
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:	<p>This gene represents a member of the 'frizzled' gene family, which encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The protein encoded by this family member contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, and seven transmembrane domains, but unlike other family members, this protein does not contain a C-terminal PDZ domain-binding motif. This protein functions as a negative regulator of the canonical Wnt/beta-catenin signaling cascade, thereby inhibiting the processes that trigger oncogenic transformation, cell proliferation, and inhibition of apoptosis. Alternative splicing results in multiple transcript variants, some of which do not encode a protein with a predicted signal peptide.[provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>