

## Product datasheet for **RC229001**

### Frizzled 6 (FZD6) (NM\_001164615) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 6 (FZD6) (NM_001164615) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frizzled 6
Synonyms:	FZ-6; FZ6; HFZ6; NDNC1; NDNC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC229001 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGATGTTTACATTTTTGTTGACGTGTATTTTTCTACCCCTCCTAAGAGGGCACAGTCTCTTACCT  
 GTGAACCAATTACTGTTCCAGATGTATGAAAATGGCCTACAACATGACGTTTTTCCCTAATCTGATGGG  
 TCATTATGACCAGAGTATTGCCGCGGTGAAAATGGAGCATTCTTCTCTCGCAAATCTGGAATGTTCA  
 CCAAACATTGAACTTTCTCTGCAAAGCATTGTACCAACTGCATAGAACAAATTCATGTGGTCCAC  
 CTTGTCGTAACCTTTGTGAGAAAGTATATTCTGATTGCAAAAAATTAATTGACACTTTTGGGATCCGATG  
 GCCTGAGGAGCTGAATGTGACAGATTACAATACTGTGATGAGACTGTTCTGTAACCTTTGATCCACAC  
 ACAGAATTTCTGGTCTCAGAAGAAAACAGAACAAGTCCAAAGAGACATTGGATTTTGGTGTCCAAGGC  
 ATCTTAAGACTTCTGGGGACAAGGATAAAGTTTCTGGGAATTGACCAGTGTGCGCCTCCATGCCCCAA  
 CATGTATTTAAAAGTATGAGCTAGAGTTTGCAAAAAGTTTTATTGGAACAGTTTCAATATTTTGTCTT  
 TGTGCAACTCTGTTACACTTCTTACTTTTTTAATTGATGTTAGAAGATTCAGATACCCAGAGAGACCAA  
 TTATATATACTCTGTCTGTTACAGCATTGTATCTCTTATGTAATTCATTGGATTTTTGTGGGCGATAG  
 CACAGCCTGCAATAAGGCAGATGAGAAGCTAGAATGGTGTGACTGTTGTCTAGGCTCTCAAAAATAAG  
 GCTTGCACCGTTTTGTTTCATGCTTTTGTATTTTTTCAAAATGGCTGGCACTGTGTGGTGGGTGATTCTTA  
 CCATTACTTGGTCTTAGCTGCAGGAAGAAAATGGAGTTGTGAAGCCATCGAGCAAAAAGCAGTGTGGTT  
 TCATGCTGTTGCATGGGAACACCAGGTTTCTGACTGTTATGCTTCTTGCTCTGAACAAAGTTGAAGGA  
 GACAACATTAGTGGAGTTTGTCTTTGGCTCTCTCTTTTAGCTGGCATTATTTCTTAAATCATGTTTCG  
 CACTGTGCCTTTGTGTGTTTGGGCTCTCTCTTTTAGCTGGCATTATTTCTTAAATCATGTTTCG  
 ACAAGTCATACAACATGATGGCCGGAACCAAGAAAAACTAAAGAAATTTATGATTGGAATTGGAGTCTTC  
 AGCGGCTTGATCTTGTGCCATTAGTGACACTTCTCGGATGTTACGTCTATGAGCAAGTGAACAGGATTA  
 CCTGGGAGATAACTTGGGCTCTGATCATTGTCGTGAGTACCATATCCCATGTCCTTATCAGGCAAAAAGC  
 AAAAGCTCGACCAGAATTGGCTTTATTTATGATAAAATACCTGATGACATTAATTGTTGGCATCTCTGCT  
 GTCTTCTGGGTTGGAAGCAAAAAGACATGCACAGAATGGGCTGGGTTTTTTAAACGAAATCGCAAGAGAG  
 ATCCAATCAGTAAAAGTGAAGAGTACTACAGGAATCATGTGAGTTTTTCTTAAAGCACAATTCTAAAGT  
 TAAACACAAAAAAGCACTATAAACCAAGTTCACACAAGCTGAAGGTCAATTTCCAAATCCATGGGAACC  
 AGCACAGGAGCTACAGCAATCATGGCACTTCTGCAGTAGCAATTAAGCCATGATTACCTAGGACAAG  
 AAATTTGACAGAAATCCAAACCTCACCAGAAACATCAATGAGAGAGGTGAAAGCGGACGGAGCTAGCAC  
 CCCCAGGTTAAGAGAACAGGACTGTGGTGAACCTGCCTCGCCAGCAGCATTCCATCTCCAGACTCTCTGGG  
 GAACAGGTCGACGGGAAGGGCCAGGCAGGCAGTGTATCTGAAAGTGCAGGAGTGAAGGAAGGATTAGTC  
 CAAAGAGTGATTAATGACTGACTGGCCTGGCACAGAGCAACAATTTGCAGGTCCCAGTTCTTCAGAACC  
 AAGCAGCTCAAAGTTCCACATCTCTGCTTGTTCACCCAGTTTTCAGGAGTGAGAAAAGAGCAGGGAGGT  
 GGTTGTCATTCAGATACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC229001 protein sequence  
 Red=Cloning site Green=Tags(s)

MEMFTFLLCIFLPLLRGHSFLTCEPITVPRCMK MAYNMTFFPNLMGHYDQSIAAVEMEHLPLANLECS  
 PNIETFLCKAFVPTCIEQIHVVPPCRKLCVKVSDCKKLI DTFGIRWPEELECDRLQYCDETVPVTFDPH  
 TEFLGPQKKTEQVQRDIGFWCPRHLKTSGGQGYKFLGIDQCAPPNMYFKSDELEFAKSFIGTVSIFCL  
 CATLFTFLTFLIDVRRFRYPERP I IYYSVCYSIVSLMYF IGFLLDSTACNKADKLELGDTVVLG SQNK  
 ACTVLFMLLYFFFTMAGTVWVWVILITWFLAAGRKWSCEAIEQKAVWFHAVA WGTGPGFLTVMLLALNKVEG  
 DNISGVCFVGLYDLASRYFVLLPLCLCVFVGLSLLLAGIISLNHVRQVIQHDGRNQEK LKFKMIRIGVF  
 SGLYLVPVLTLLGCYVVEQVNRITWEITWVSDHCRQYHIPCPYQAKAKARPELALFMIKYLMTLIVGISA  
 VFVWGSKKTCTEWAGFFKRNRKRDPISESRRVLQESCEFFLKHNSKVKKKKHYKPS SHKLVISKSMGT  
 STGATANHGTSVAITSHDYLGQETL TEIQTSPETSMREVKADGASTPRLREQDCGEPASPAASISRLSG  
 EQVDGKGQAGSVSESARSEGRISP KSDITDTGLAQSNLQVPSSSEPSSLKGSTLLVHPVSGVRKEQGG  
 GCHSDT

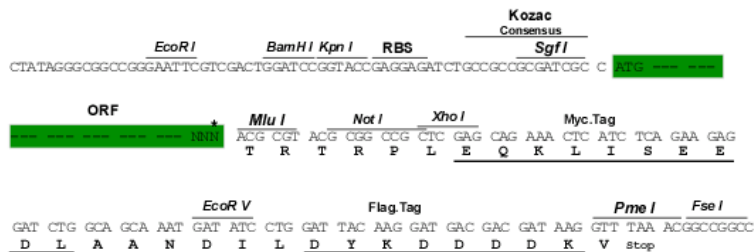
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6126\\_f03.zip](https://cdn.origene.com/chromatograms/mk6126_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001164615

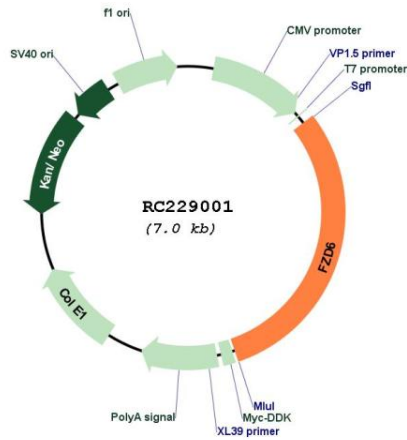
**ORF Size:** 2118 bp

**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](#)

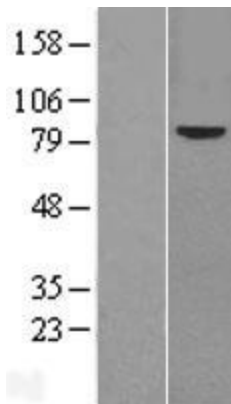
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_001164615.1, NP_001158087.1</u>
<b>RefSeq Size:</b>	3779 bp
<b>RefSeq ORF:</b>	2121 bp
<b>Locus ID:</b>	8323
<b>UniProt ID:</b>	<u>O60353</u>
<b>Cytogenetics:</b>	8q22.3
<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>MW:</b>	79.3 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC229001



Western blot validation of overexpression lysate (Cat# [LY432028]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229001 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).