

Product datasheet for **RC204167**

Frizzled 7 (FZD7) (NM_003507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 7 (FZD7) (NM_003507) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frizzled 7
Synonyms:	FzE3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC204167 representing NM_003507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGACCCCGCGCGCCGCTCCGCTTTCGTCCTGGGCCTCTGTGCCCTGGTCTGGCGCTGCTGG
 GCGCACTGTCCGCGGGCGCCGGGGCGCAGCCGTACCACGGAGAGAAGGGCATCTCCGTGCCGGACCACGG
 CTTCTGCCAGCCATCTCCATCCCGCTGTGCACGGACATCGCCTACAACCAGACCATCTGCCAACCTG
 CTGGGCCACACGAACCAAGAGGACGCGGGCCTCGAGGTGCACCAAGTTCTACCCGCTGGTGAAGTGCAGT
 GTTCTCCGAACCTCCGCTTTTTCTATGCTCCATGTATGCGCCCGTGTGCACCGTCTCGATCAGGCCAT
 CCCGCCGTGTCGTTCTCTGTGCGAGCGCGCCCGCAGGGCTGCGAGGCGCTCATGAACAAGTTCCGCTTC
 CAGTGGCCCGAGCGGCTGCGCTGCGAGAACTTCCCGGTGCACGGTGCAGGCGGAGATCTGCGTGGCCAGA
 ACACGTGCGACGGCTCCGGGGGCCAGGCGGGCCCGCCACTGCCTACCCTACCGCGCCCTACCTGCCGA
 CCTGCCCTTACCGCGCTGCCCGGGGGCCTCAGATGGCAGGGGGCGTCCCGCCTTCCCTTCTCATGC
 CCCCGTACGTCAAGGTGCCCGGTACCTGGGCTACCGCTTCTGGGTGAGCGCGATTGTGGCGCCCGT
 GCGAACCGGGCCGTGCCAACGGCCTGATGTACTTTAAGGAGGAGGAGAGGCGCTTCGCCCGCCTCTGGT
 GGGCGTGTGGTCCGTGCTGTGCTGCGCCTCGACGCTCTTACCCTTCTCACCTACCTGGTGGACATGCGG
 CGCTTACGTACCCAGAGCGGCCATCATCTTCTGTGCGGCTGCTACTTTCATGGTGGCCGTGGCGCAG
 TGGCCGGCTTCTTCTAGAGGACCGCGCGTGTGCGTGGAGCGCTTCTCGGACGATGGCTACCGCACGGT
 GGCGCAGGGCACCAGAAGGAGGGCTGCACCATCTTTCATGGTGTCTACTTCTTCCGATGGCCAGC
 TCCATTTGGTGGTCACTTCTGTCTCTCACTTGGTCTTCTGGCGCCGGCATGAAGTGGGGCCACGAGGCCA
 TCGAGGCCAACTCGCAGTACTTCCACTGGCCGCGTGGGCCGTGCCCGCGTCAAGACCATCACTATCCT
 GGCCATGGGCCAGGTAGACGGGGACCTGCTGAGCGGGGTGTGCTACGTTGGCCTCTCCAGTGTGGACGCG
 CTGCGGGGCTTCTGCTGCGCCCTCTGTTCTGCTACTTCTCATAGGCACGTCTTCTTGTGCGCCGCT
 TCGTGTCCCTTCTCCGTATCCGCACCATCATGAAACACGACGGCACCAAGACCGAGAAGCTGGAGAAGCT
 CATGGTGCATCGGCGTCTTACGCGTCTTACACAGTCCCGCCACCATCGTCTTGGCCTGCTACTTCT
 TACGAGCAGGCTTCCGCGAGCACTGGGAGCGCACCTGGCTCTGCAGACGTGCAAGAGCTATGCCGTGC
 CCTGCCCGCCCGCCACTTCCCGCCATGAGCCCCGACTTACCGTCTTTCATGATCAAGTACCTGATGAC
 CATGATCGTGGCATCACCCTGGTCTTGGATCTGGTGGGCAAGACCCTGCAGTCTGGCGCCGCTTC
 TACCACAGACTTAGCCACAGCAGCAAGGGGGAGACTGCGGTA

ACCGGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204167 representing NM_003507
 Red=Cloning site Green=Tags(s)

MRDPGAAAPLSSLGLCALVLLALLGALSAGAGAQPYHGEKGISVDPDHGFCQPIISIPLCTDIAYNQITILPNL
 LGHTNQEDAGLEVHQFYPLVKVQCSPFLRFFLCSMYAPVCTVLDQAIPPCRSLCERARQGEALMNFQGF
 QWPERLRCENFPVHGAGEICVGNQNTSDGSGGPGGPTAYPTAPYLPDLPTALPPGASDGRGRPAFPFSC
 PRQLKVPYLYGYRFLGERDCGAPCEPGRANGLMYFKEEERRFARLWVGWVSVLCCASTLFTVLYLVDNR
 RFSYPERPIIFLSGCFYMAVAHVAGFLLEDRAVCVERFSDDGYRTVAQGTKKEGCTILFMVLYFFGMAS
 SIWWWILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKITITILAMQVDGDLISGVCYVGLSSVDA
 LRGFVLAFLFVYLFIGTSFLLAGFVSLFRIRTIMKHDGKTEKLEKLMVRIGVFSVLYTVPATIVLACYF
 YEQAFREHWERTWLLQTCKSYAVPCPPGHFPPMSPDFTVFMIKYLMTMIVGITTFWFIWSGKTLQSWRRF
 YHRLSHSSKGETAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2737_e01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003507

ORF Size: 1722 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.

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_003507.1](#), [NP_003498.1](#)

RefSeq Size: 3851 bp

RefSeq ORF: 1725 bp

Locus ID: 8324

UniProt ID: [O75084](#)

Cytogenetics: 2q33.1

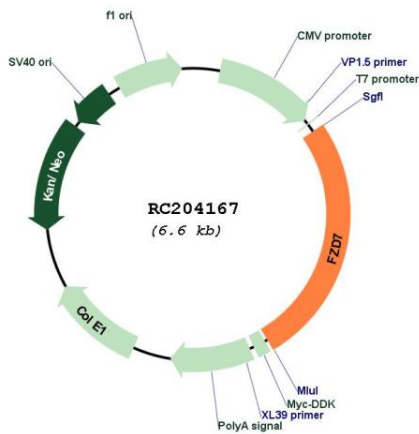
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway

MW: 63.4 kDa

Gene Summary: Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD7 protein contains an N-terminal signal sequence, 10 cysteine residues typical of the cysteine-rich extracellular domain of Fz family members, 7 putative transmembrane domains, and an intracellular C-terminal tail with a PDZ domain-binding motif. FZD7 gene expression may downregulate APC function and enhance beta-catenin-mediated signals in poorly differentiated human esophageal carcinomas. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC204167