

Product datasheet for **RC217286**

Frizzled 4 (FZD4) (NM_012193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 4 (FZD4) (NM_012193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frizzled 4
Synonyms:	CD344; EVR1; FEVR; Fz-4; Fz4; FZD4S; FzE4; GPCR; hFz4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217286 representing NM_012193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTGGCGGGCGCAGGGCCGAGCGTCCCGGGGGCGCCCGGGGGCGTGGTCTCAGTCTGGGGTTGC
 TCCTGCAGTTGCTGCTGCTCCTGGGGCCGGCGGGGCTTCGGGGACGAGGAAGAGCGGCCGCTGCGACCC
 CATCCGCATCTCCATGTGCCAGAACCTCGGCTACAACGTGACCAAGATGCCAACCTGGTTGGGCACGAG
 CTGCAGACGGACGCCGAGCTGCAGCTGACAACCTTACACCGCTCATCCAGTACGGCTGCTCCAGCCAGC
 TGCAGTCTTCTTTGTTCTGTTTATGTGCCAATGTGCACAGAGAAGATCAACATCCCCATTGGCCCATG
 CGGCGGCATGTGCTTTTCAGTCAAGAGACGCTGTGAACCCGCTCTGAAGGAATTTGGATTGCTGGCCA
 GAGAGTCTGAAGTGCAGCAAATCCCACCACAGAACGACCACAACCACATGTGCATGGAAGGGCCAGGTG
 ATGAAGAGGTGCCCTTACCTCACAAAACCCCATCCAGCCTGGGGAAGAGTGTCACTCTGTGGGAACCAA
 TTCTGATCAGTACATCTGGGTGAAAAGGAGCCTGAACTGTGTGCTCAAGTGTGGCTATGATGCTGGCTTA
 TACAGCCGCTCAGCCAAGGAGTTCACTGATATCTGGATGGCTGTGTGGCCAGCCTGTGTTTCATCTCCA
 CTGCCTTCACAGTACTGACCTTCTGATCGATTCTTCTAGGTTTTCTACCTGAGCGCCCCATCATATT
 TCTCAGTATGTGCTATAATTTATAGCATTGCTTATATTGTGAGGCTGACTGTAGGCCGGGAAAGGATA
 TCCTGTGATTTTGAAGAGGCAGCAGAACCTGTTCTCATCCAAGAAGGACTTAAGAACACAGGATGTGCAA
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 GTTTTTGGCAGCAGGACTCAAATGGGGTCATGAAGCCATTGAAATGCACAGCTCTATTTCCACATTGCA
 GCCTGGCCATCCCCGCAGTAAAACCATTTGCATCTTGATTATGAGACTGGTGGATGCAGATGAACCTGA
 CTGGCTTGTGCTATGTTGGAAACCAAAATCTCGATGCCCTCACCGGTTCTGGTGGCTCCCTCTTTAC
 TTATTTGGTCATTGGAACCTTTGTTCAATGCTGAGGTTTGGTGGCCTTGTTCAAAATTCGGTCAAATCTT
 CAAAAGGATGGGACAAAGACAGACAAGTTAAGAAAGACTGATGGTCAAGATTGGGGTGTCTCAGTACTGT
 ACACAGTCTCTGCAACGTGTGTGATTGCCTGTTATTTTTATGAAATCTCCAAGTGGGCACTTTTTCGGTA
 TTCTGCAGATGATTCCAACATGGCTGTTGAAATGTTGAAAATTTTTATGCTTTTGGTGGGCATCACT
 TCAGGCATGTGGATTTGGTCTGCCAAAACCTTTCACACGTGCCAGAGTGTCCAACAGATTGGTGAATT
 CTGAAAAGGTAAGAGAGAGAAGAGAGGAAATGGTTGGGTGAAGCCTGAAAAGGCAGTGAAGTGTGGT
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217286 representing NM_012193
 Red=Cloning site Green=Tags(s)

MAWRGAGPSVPGAPGGVGLSLGLLLQLLLLLGPARGFGDEEERRCDPIRISMCQNLGYNVTKMPNLVGHE
 LQTDALQLTTFPLIQYGCSSQLQFFLCSVYVPMCTEKINIPIGPCGMCLSVKRRRCEPVLKEFGFAWP
 ESLNCSKFPPQNDHNHMCMEGPGDEEVPLPHKTIQPGEECHSVGTNSDQYIWKVRLNCLVKCYDAGL
 YSRSAKEFTDIWMAVWASLCFISTAFTVLTFLIDSSRFSPYPERPIIFLSMCYNIYSIAYIVRLTVGRERI
 SCDFEEAAEPVLIQEGLKNTGCAIIFLLMYFFGMASSIWWVILTLTWFLAAGLKWGHEAIEMHSSYFHIA
 AWAIPAVKTIVILIMRLVDADEL TGLCYVGNQNLDALTFVAVPLFTYL VIGTLFIAAGLVALFKIRSNL
 QKDGTKDKLERLMVKIGVFSVLYTVPATCVIACYFYEISNWALFRYSADDSNMAVEMLIKIFMSLLVGIT
 SGMWIWSAKTLHTWQKCSNRLVNSGKVKREKRGNGVWKPGKGSSETVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6108_f11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012193

ORF Size: 1611 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012193.4](#)

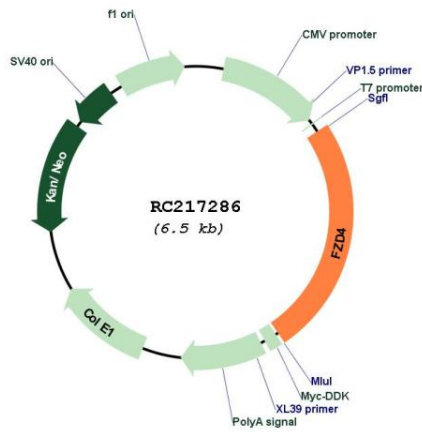
RefSeq Size: 7394 bp

RefSeq ORF: 1614 bp

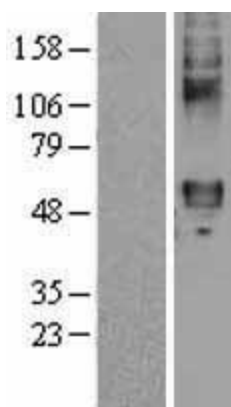
Locus ID: 8322

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
MW: 60.3 kDa
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]

Product images:



Circular map for RC217286



Western blot validation of overexpression lysate (Cat# [LY402165]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217286 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).