

Product datasheet for **RC222511**

FGFRL1 (NM_001004358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFRL1 (NM_001004358) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGFRL1
Synonyms:	FGFR-5; FGFR5; FHFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222511 representing NM_001004358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCCGCCGCTGCTGCTGGGGCCCTCCCGCCGGCCGCC
 CCGCCCGAGGCCCCCAAGATGGCGGACAAGGTGGTCCACGCGCAGGTGGCCCGCTGGCCCGCACTGT
 GCGGCTGCAGTGCCAGTGGAGGGGACCCGCCCGCTGACCATGTGGACCAAGGATGGCCGACCATC
 CACAGCGGCTGGAGCCGCTTCCGCGTGTGCCGACGGGCTGAAGGTGAAGCAGGTGGAGCGGGAGGATG
 CCGGCGTGTACGTGTCAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCGTGCT
 GGATGACATTAGCCAGGAAGGAGAGCCTGGGGCCGACAGCTCCTCTGGGGTCAAGAGGACCCCGCC
 AGCCAGCAGTGGGCACGACCGCTTACACAGCCCTCCAAGATGAGGCGCGGGTATCGCACGGCCCG
 TGGGTAGCTCCGTGCGGCTCAAGTGCCTGGCCAGCGGGCACCTCGGCCGACATCACGTGGATGAAGGA
 CGACCAGCCTTGACGCGCCAGAGCCGCTGAGCCAGGAAGAAGAAGTGGACTGAGCCTGAAGAAC
 CTGCGGCCGAGGACAGCGGCAAATACACTGCCGCGTGTGAACCGCGGGGCCATCAACGCCACCT
 ACAAGGTGGATGTGATCCAGCGGACCCGTTCCAAGCCCGTGTCAAGGCACGCACCCCGTGAACACGAC
 GGTGGACTTCGGGGGACCACGTCTTCCAGTGAAGGTGCGCAGCGACGTGAAGCCGGTATCCAGTGG
 CTGAAGCGCGTGGAGTACGGCGCCGAGGGCCGCCACAACCTCCACCATCGATGTGGCGGCCAGAAGTTT
 TGGTGTGCCACGGGTGACGTGTGGTCCGCGCCCGACGGCTCCTACCTCAATAAGCTGCTCATACCCG
 TGCCCGCCAGGACGATGCGGGCATGTACATCTGCCTTGGCGCCAAACCATGGGCTACAGCTTCCGACG
 GCCTTCTCACCGTGTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCTCCTCGTCTCGGCCACTA
 GCCTTCCGTTGGCCGTTGTCATCGGCATCCAGCCGGCGCTGTCTCATCTGGGCACCCCTGCTCTGTG
 GCTTTGCCAGGCCAGAAGAAGCCGTGCACCCCGCGCCTGCCCTCCCTGCCTGGGCACCGCCCGCCG
 GGGACGGCCCGACCGCAGCGGAGACAAGGACCTTCCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGT
 TGGGGCTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGCCAGTTGCTGG
 CCCTAAGTTGTACCCAACTCTACACAGACATCCACACACACACACACACTCTCACACACTCA
 CACGTGGAGGGCAAGGTCCACCAGCACATCCACTATCAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222511 representing NM_001004358
 Red=Cloning site Green=Tags(s)

MTPSPLLLLLLPPLLLGAFPPAAAARGPPKMDKVVPRQVARLGRVRLQCPVEGDPPPLTMWTKDGRTI
 HSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGSLSVNYTLVVLDDISPGKESLGPDSSSGGQEDPA
 SQQWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKWTL
 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPVL TGHVNTTVDVFGGTSFQCKVRS
 DVKPKVIQW LKRVEYGAEGRHNSIDVGGQKFVVLPTGDVWSRPGSYLNKLLITRARQDDAGMYICL
 GANTMGYSFRS AFLTVLPDPKPPGPPVASSSSATSLPWPVVIGIPAGAVFILGTL
 LLWLCQAQKPKPTAPAPPLPGRHP GTARDRSGDKDLPSLAALSAGPGVGLCEEHSPAAPQHLL
 GPGPVAGPKLYPKLYTDIHTHTHTSHSHTS HVEGKVHQHIHYQC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004358

ORF Size: 1512 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_001004358.1](#), [NP_001004358.1](#)

RefSeq Size: 3115 bp

RefSeq ORF: 1515 bp

Locus ID: 53834

UniProt ID: [Q8N441](#)

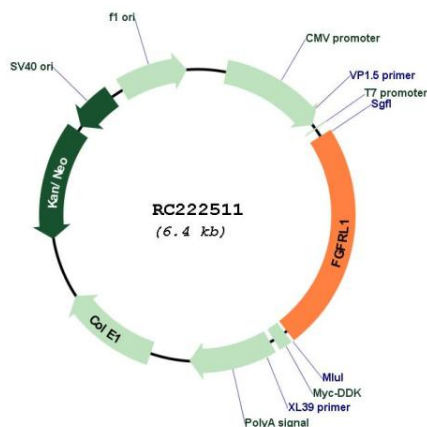
Cytogenetics: 4p16.3

Protein Families: Druggable Genome, Transmembrane

MW: 54.54 kDa

Gene Summary: The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. A marked difference between this gene product and the other family members is its lack of a cytoplasmic tyrosine kinase domain. The result is a transmembrane receptor that could interact with other family members and potentially inhibit signaling. Multiple alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222511