

Product datasheet for **RG222511**

FGFRL1 (NM_001004358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFRL1 (NM_001004358) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGFRL1
Synonyms:	FGFR-5; FGFR5; FHFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222511 representing NM_001004358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCCGCCGCTGCTGCTGGGGCCCTCCCGCCGGCCGCC
 CCGCCCGAGGCCCAAGATGGCGGACAAGGTGGTCCACGCGAGGTGGCCCGCTGGCCCGCACTGT
 GCGGCTGCAGTGCCAGTGGAGGGGACCCGCCCGCTGACCATGTGGACCAAGGATGGCCGACCATC
 CACAGCGGCTGGAGCCGCTTCCGCGTGTGCCGACGGGCTGAAGGTGAAGCAGGTGGAGCGGGAGGATG
 CCGGCGTGTACGTGTCAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCGTGCT
 GGATGACATTAGCCAGGAAGGAGAGCCTGGGGCCGACAGCTCCTCTGGGGTCAAGAGGACCCCGCC
 AGCCAGCAGTGGGACGACCGCGCTTACACAGCCCTCCAAGATGAGGCGCGGGTATCGCACGGCCCG
 TGGGTAGCTCCGTGCGGCTCAAGTGCCTGGCCAGCGGGCACCCCTCGGCCGACATCACGTGGATGAAGGA
 CGACCAGCCTTGACGCGCCAGAGCCGCTGAGCCAGGAAGAAGAAGTGGACTGAGCCTGAAGAAC
 CTGCGGCCGAGGACAGCGGCAAATACACTGCCGCGTGTGAACCGCGCGGGCCATCAACGCCACCT
 ACAAGGTGGATGTGATCCAGCGGACCCGTTCCAAGCCCGTGTCAAGGACGACGCCCCGTGAACACGAC
 GGTGGACTTCGGGGGACCACTCCTTCCAGTGAAGGTGCGCAGCGACGTGAAGCCGGTATCCAGTGG
 CTGAAGCGCGTGGAGTACGGCGCCGAGGGCCGCCCAACTCCACCATCGATGTGGGCGGCCAGAAGTTTG
 TGGTGTGCCACGGGTGACGTGTGGTCCGCGCCCGACGGCTCCTACCTCAATAAGCTGCTCATACCCCG
 TGCCCGCCAGGACGATGCGGGCATGTACATCTGCCTTGGCGCCAAACCATGGGCTACAGCTTCCGACG
 GCCTTCTCACCGTGTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCTCCTCGTCTCGGCCACTA
 GCCTTGGCCAGGCCAGAAGAAGCCGTGCACCCCGCGCCTGCCCTCCCTGCCTGGGACCCGCGCCGCG
 GGGACGGCCCGGACCGCAGCGGAGACAAGGACCTTCCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGTG
 TGGGGTGTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGCCAGTTGCTGG
 CCCTAAGTTGTACCCAACTCTACACAGACATCCACACACACACACACACTCTCACACACTCA
 CACGTGGAGGGCAAGGTCCACCAGCACATCCACTATCAGTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

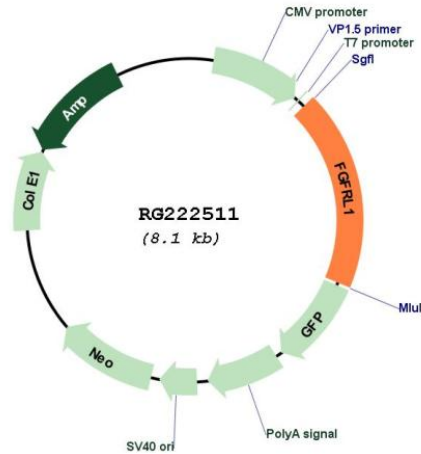
>RG222511 representing NM_001004358
 Red=Cloning site Green=Tags(s)

MTPSPLLLLLPPLLLGAFPPAAAARGPPKMAKVVPRQVARLGRVRLQCPVEGDPPPLTMWTKDGRIT
 HSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNYTLVLLDDISPGKESLGPDSSSGGQEDPA
 SQQWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKWTL
 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPVLGTGHPVNTTVDFGGTTSFQCKVRS
 DVKPVIIQWLKRVYEGAEGRHNSTIDVGGQKFFVLPDGDVWSRPDGSYLNKLLITRARQDDAGMY
 ICLGANTMGYSFRS AFLTVLPDPKPPGPPVASSSSATSLPWPVVIIGIPAGAVFILGTL
 LLWLCQAQKKPCTPAPAPPLPGHRRPGTARDRSGDKDLPSLAALSAGPGVGLCEEHGS
 PAAPQHLLGPGPVAGPKLYPKLYTDIHTHTHTSHSHTSHS HVEGKVVHQHIHYQC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


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:	<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:	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
Gene Summary:	<p>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]</p>