

## Product datasheet for **RG207730**

### **FGFRL1 (NM\_001004356) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FGFRL1 (NM_001004356) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG207730 representing NM\_001004356  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCCGCCGCTGCTGCTGGGGCCCTCCCGCCGGCCGCC  
 CCGCCCGAGGCCCCCAAGATGGCGGACAAGGTGGTCCACGCGAGGTGGCCCGCTGGCCCGCACTGT  
 GCGGCTGCAGTGCCAGTGGAGGGGACCCGCCCGCTGACCATGTGGACCAAGGATGGCCGACCATC  
 CACAGCGGCTGGAGCCGCTTCCGCGTGTGCCGAGGGGCTGAAGGTGAAGCAGGTGGAGCGGGAGGATG  
 CCGGCGTGTACGTGTCAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCGTGT  
 GGATGACATTAGCCAGGAAGGAGAGCCTGGGGCCGACAGCTCCTCTGGGGTCAAGAGGACCCCGCC  
 AGCCAGCAGTGGGCAGACCGCGCTTACACAGCCCTCCAAGATGAGGCGCCGGGTATCGCACGGCCCG  
 TGGGTAGCTCCGTGCGGCTCAAGTGCCTGGCCAGCGGGCACCCCTCGGCCGACATCACGTGGATGAAGGA  
 CGACCAGCCTTGACGCGCCAGAGCCGCTGAGCCAGGAAGAAGAAGTGGACTGAGCCTGAAGAAC  
 CTGCGGCCGAGGACAGCGGCAAATACACTGCCGCGTGTGAACCGCGCGGGGCCATCAACGCCACCT  
 ACAAGGTGGATGTGATCCAGCGGACCCGTTCCAAGCCCGTGTCAAGGACGACGCCCCGTGAACACGAC  
 GGTGGACTTCGGGGGACCACGTCTTCCAGTGAAGGTGCGCAGCGACGTGAAGCCGGTATCCAGTGG  
 CTGAAGCGCGTGGAGTACGGCGCCGAGGGCCGCCACAACCTCCACCATCGATGTGGGCGGCCAGAAGTTT  
 TGGTGTGCCACGGGTGACGTGTGGTCCGCGGCCGACGGCTCCTACCTCAATAAGCTGCTCATACCCCG  
 TGCCCGCCAGGACGATGCGGGCATGTACATCTGCCTTGGCGCCAAACCATGGGCTACAGCTTCCGACG  
 GCCTTCTCACCGTGTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCTCCTCGTCTCGGCCACTA  
 GCCTTGGCCAGGCCAGAAAGACCGGTGCACCCCGCGCCTGCCCTCCCTGCCTGGGCACCGCCCGCCG  
 GGGACGGCCCGGACCGCAGCGGAGACAAGGACCTTCCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGT  
 TGGGGCTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGCCAGTTGCTGG  
 CCCTAAGTTGTACCCAACTCTACACAGACATCCACACACACACACACACTCTCACACACTCA  
 CACGTGGAGGGCAAGGTCCACCAGCACATCCACTATCAGTGC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207730 representing NM\_001004356  
 Red=Cloning site Green=Tags(s)

MTPSPLLLLLLPPLLLGAFFPAAAARGPPKMAKVVPRQVARLGRVRLQCPVEGDPPPLTMWTKDGRIT  
 HSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNYTLVLLDDISPGKESLGPDSSSGGQEDPA  
 SQQWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKWTL  
 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPVLGTGHPVNTTVDFGGTTSFQCKVRS  
 DVKPIQWLKRVEYGAEGRHNSTIDVGGQKFVVLPTGDVWSRPDGSYLNKLLITRARQDDAGMYICL  
 GANTMGYSFRSAFLTVPDPKPPGPPVASSSSATSLPWPVVIIGIPAGAVFILGTLWLWCQAQK  
 KPCTPAPAPPLPGHRRPGTARDRSGDKDLPSLAALSAGPGVGLCEEHGSPAAPQHLLGPGPVAGPK  
 LYPKLYTDIHTHTHTSHSHTSHS HVEGKVVHQHIHYQC

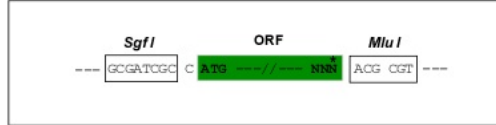
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

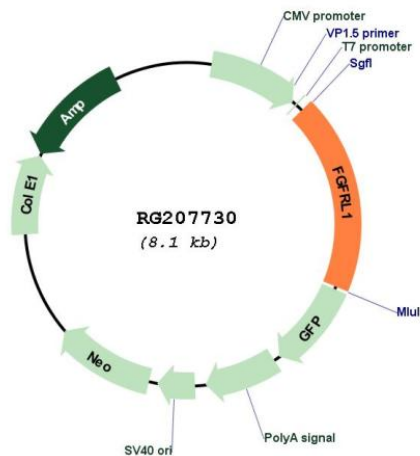
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001004356

ORF Size: 1512 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001004356.3](#)

**RefSeq Size:** 3215 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 53834

**UniProt ID:** [Q8N441](#)

**Cytogenetics:** 4p16.3

**Protein Families:** Druggable Genome, Transmembrane

**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]