

## Product datasheet for RC202482

### FGF18 (NM\_003862) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF18 (NM\_003862) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FGF18  
**Synonyms:** FGF-18; ZFGF5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202482 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTATTCAGCGCCCTCCGCTGCACTTGCCTGTGTTTACACTTCTGCTGCTGTGCTTCCAGGTACAGG  
 TGCTGTTGCGGAGGAGAACGTGGACTTCCGCATCCACGTGGAGAACCAGACGCGGGCTCGGGACGATGT  
 GAGCCGTAAAGCAGCTGCGGCTGTACCAGCTCTACAGCCGACAGTGGGAAACACATCCAGGTCTGGGC  
 CGCAGGATCAGTGCCCGCGGCGAGGATGGGACAAGTATGCCAGCTCCTAGTGGAGACAGACACCTTCG  
 GTAGTCAAGTCCGGATCAAGGGCAAGGAGACGGAATTCTACCTGTGCATGAACCGCAAAGGCAAGCTCGT  
 GGGGAAGCCCGATGGCACCAGCAAGGAGTGTGTTCATCGAGAAGGTTCTGGAGAACTACACGGCC  
 CTGATGTCGGCTAAGTACTCCGGCTGGTACGTGGCTTACCAAGAAGGGCGGGCCGGAAGGGCCCA  
 AGACCCGGGAGAACCAGCAGGACGTGCATTTTCATGAAGCGCTACCCCAAGGGGCAGCCGGAGCTTCAGAA  
 GCCCTTCAAGTACACGACGGTGACCAAGAGGTCCCGTCGGATCCGGCCACACACCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202482 protein sequence  
 Red=Cloning site Green=Tags(s)

MYSAPSACTCLCLHFLLLCFVQVQLVAEENVDFRIHVENQTRARDDVSRKQLRLYQLYSRTSGKHIQVLG  
 RRI SARGEDGDKYAQLL VETDTFGSQVRIKGETEFYLCMNRKGLVGKPDGTSKECVFIEKVLNNYTA  
 LMSAKYSGWYVGF TKKGRPRKGPKTRENQDVFHFMKRYPKGQPELQKPFKYTTVTKR SRRIRP THPA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6410\\_b03.zip](https://cdn.origene.com/chromatograms/mk6410_b03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003862

**ORF Size:** 621 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\\_003862.3](#)

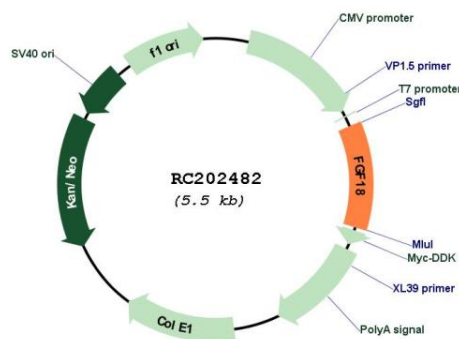
**RefSeq Size:** 1999 bp

**RefSeq ORF:** 624 bp

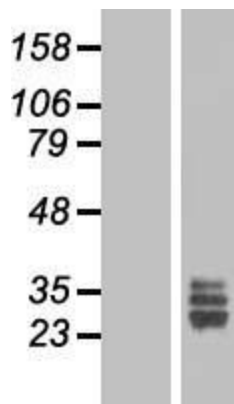
**Locus ID:** 8817

**UniProt ID:** [O76093](#)  
**Cytogenetics:** 5q35.1  
**Protein Families:** ES Cell Differentiation/IPS, Secreted Protein  
**Protein Pathways:** MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton  
**MW:** 24 kDa  
**Gene Summary:** The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. It has been shown in vitro that this protein is able to induce neurite outgrowth in PC12 cells. Studies of the similar proteins in mouse and chick suggested that this protein is a pleiotropic growth factor that stimulates proliferation in a number of tissues, most notably the liver and small intestine. Knockout studies of the similar gene in mice implied the role of this protein in regulating proliferation and differentiation of midline cerebellar structures. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC202482



Western blot validation of overexpression lysate (Cat# [LY418386]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202482 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).