

Product datasheet for **RG202482**

FGF18 (NM_003862) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF18 (NM_003862) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FGF18
Synonyms: FGF-18; ZFGF5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202482 representing NM_003862
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATTCAGCGCCCTCCGCTGCCTGTGTTTACACTTCTGCTGCTGTGCTTCCAGGTACAGG
TGCTGTTGCCGAGGAGAACGTGGACTTCCGCATCCACGTGGAGAACCAGACGCGGGCTCGGACGATGT
GAGCCGTAAAGCAGCTGCGGCTGTACCAGCTCTACAGCCGACAGTGGGAAACACATCCAGGTCCTGGGC
CGCAGGATCAGTCCCGCGGCGAGGATGGGACAAGTATGCCAGCTCCTAGTGGAGACAGACACCTTCG
GTAGTCAAGTCCGGATCAAGGGCAAGGAGACGGAATTCTACCTGTGCATGAACCGCAAGGCAAGCTCGT
GGGAAGCCCGATGGCACCAGCAAGGAGTGTGTTCATCGAGAAGGTTCTGGAGAACTACACGGCC
CTGATGTCGGCTAAGTACTCCGGCTGGTACGTGGCTTACCAAGAAGGGCGGCGCGGAAGGGCCCA
AGACCCGGGAGAACCAGCAGGACGTGCATTTTCATGAAGCGCTACCCCAAGGGGCGAGCCGGAGCTTCAGAA
GCCCTTCAAGTACACGACGGTGACCAAGAGTCCCGTCCGATCCGGCCACACACCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202482 representing NM_003862
Red=Cloning site Green=Tags(s)

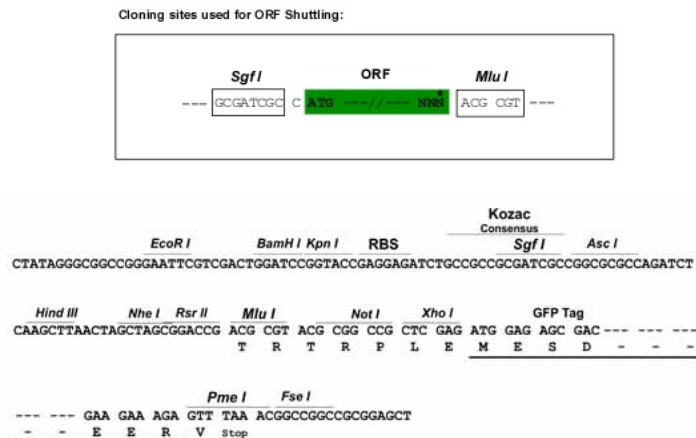
MYSAPSACTCLCLHFLLLCFVQVQLVAEENVDFRIHVENQTRARDDVSRKQLRLYQLYSRTSGKHIQVLG
RRISARGEDGDKYAQLLVETDTFGSQVRIKGETEFYLCMNRKGLVGKPDGTSKECVFIEKVLNNYTA
LMSAKYSGWYVGFTHKGRPRKGPKTRENQDVFHMKRYPKGPPELQKPFKYTTVTKRSRRIRPHTPA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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: 1546 bp

RefSeq ORF: 624 bp

Locus ID: 8817

UniProt ID: [O76093](#)

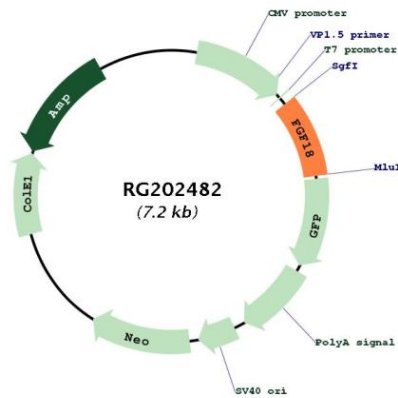
Cytogenetics: 5q35.1

Protein Families: ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

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 RG202482