

Product datasheet for **RC204164**

FGF13 (NM_004114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF13 (NM_004114) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGF13
Synonyms:	DEE90; FGF-13; FGF2; FHF-2; FHF2; LINC00889
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204164 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGGCTATCGCCAGCTCGCTCATCCGTGAGAAGAGGCAAGCCCGAGCGCGAGAAATCCAACG
CCTGCAAGTGTGTCAGCAGCCCCAGCAAAGGCAAGACCAGCTGCGACAAAAACAAGTTAAATGTCTTTTC
CCGGGTCAAACCTTCGGCTCCAAGAAGAGGCGCAGAAGAAGACCAGAGCCTCAGCTTAAGGGTATAGTT
ACCAAGCTATACAGCCGACAAGGCTACCACTTGCAGCTGCAGGCGGATGGAACCATGATGGCACCAAG
ATGAGGACAGCACTTACACTCTGTTAACTCATCCCTGTGGTCTGCGAGTGGTGGCTATCCAAGGAGT
TCAAACCAAGCTGACTTGGCAATGAACAGTGAGGGATACTTGTACACCTCGAACTTTTCACACCTGAG
TGCAAATTCAAAGAATCAGTGTTTGAAAATTTATATGTGACATATTCATCAATGATATACCGTCAGCAGC
AGTCAGGCCGAGGGTGGTATCTGGGTCTGAACAAAGAAGGAGAGATCATGAAAGGCAACCATGTGAAGAA
GAACAAGCCTGCAGCTCATTTTCTGCCTAAACCACTGAAAGTGGCCATGTACAAGGAGCCATCACTGCAC
GATCTCACGGAGTTCTCCCGATCTGGAAGCGGGACCCCAACCAAGAGCAGAAGTGCTCTGGCGTGTGA
ACGGAGGCAAATCCATGAGCCACAATGAATCAACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204164 protein sequence
Red=Cloning site Green=Tags(s)

MAAAIASSLIRQKRQAREREKSNACKCVSSPSKGTSCDKNKLNVFSRVKLFSGSKRRRRRPEPQLKGIV
 TKLYSRQGYHLQLQADGTIDGTDKEDSTYTLFNLIPVGLRVVAIQGVQTKLYLAMNSEGYLYTSELF TPE
 CKFKESVFENYYV TYSSMIYRQQSSGRGWYLG LNKKEGIMKGNHVKKNKPAAHFLPKPLKVAMYKEPSLH
 DLTEFSRSGSGTPTKRSRSVSGVLNGGKSMHNEST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6431_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_004114

ORF Size: 735 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_004114.5](#)

RefSeq Size: 2705 bp

RefSeq ORF: 738 bp

Locus ID: 2258

UniProt ID: [Q92913](#)

Cytogenetics: Xq26.3-q27.1

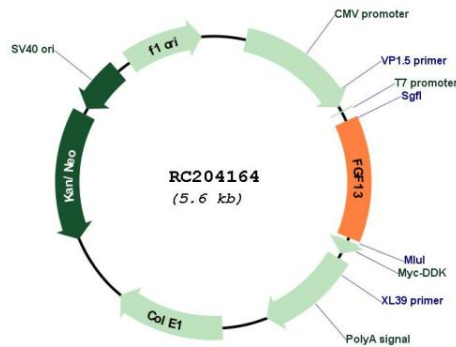
Domains: FGF

Protein Families: Secreted Protein

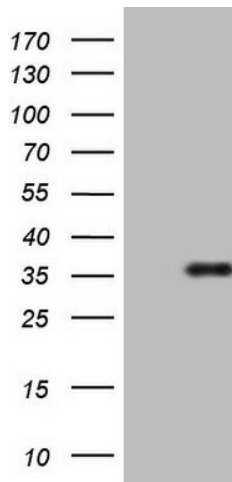
Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

MW: 27.6 kDa

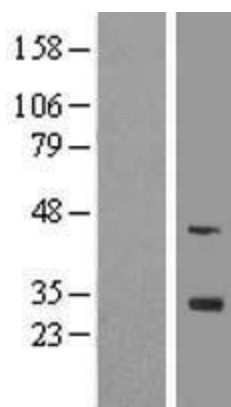
Gene Summary: The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. This gene is located in a region on chromosome X, which is associated with Borjeson-Forssman-Lehmann syndrome (BFLS), making it a possible candidate gene for familial cases of the BFLS, and for other syndromal and nonspecific forms of X-linked cognitive disability mapping to this region. Alternative splicing of this gene at the 5' end results in several transcript variants encoding different isoforms with different N-termini. [provided by RefSeq, Nov 2008]

Product images:


Circular map for RC204164



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FGF13 (Cat# RC204164, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FGF13 (Cat# [TA807761])(1:2000). Positive lysates [LY418207] (100ug) and [LC418207] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418207]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).