

Product datasheet for **RC214423**

FGF20 (NM_019851) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF20 (NM_019851) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FGF20
Synonyms: FGF-20; RHDA2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214423 representing NM_019851
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCTTAGCCGAAGTCGGGGCTTTCTGGGCGGCCTGGAGGGCTTGGCCAGCAGGTGGTTTCG
ATTTCTGTTGCCTCCTGCCGGGAGCGGCCGCCGCTGCTGGGCGAGCGCAGGAGCGCGCGGAGCGGAG
CGCCCGCGGCGGGCCGGGGCTGCGCAGCTGGCGCACCTGCACGGCATCCTGCCCGCCGGCAGCTCTAT
TGCCGCACCGGCTTCCACCTGCAGATCCTGCCCGACGGCAGCGTGCAGGGCACCCGGCAGGACCACAGCC
TCTTCGGTATCTTGAATTCATCAGTGTGGCAGTGGGACTGGTCAGTATTAGAGGTGTGGACAGTGGTCT
CTATCTTGAATGAATGACAAAGGAGAAGTCTATGGATCAGAGAACTTACTTCCGAATGCATCTTTAGG
GAGCAGTTTGAAGAGAAGTGGTATAACACCTATTCATCTAACATATATAACATGGAGACTGGCCGCA
GGTATTTTGTGGCACTTAACAAAGACGGAAGTCCAAGAGATGGCGCCAGGTCCAAGAGGCATCAGAAAT
TACACATTTCTTACCTAGACCAGTGGATCCAGAAAGAGTTCAGAAATGTACAAGGACCTACTGATGTAC
ACT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214423 representing NM_019851
Red=Cloning site Green=Tags(s)

MAPLAEVGGFLGGLEGLGQQVGSFHLLPPAGERPPLLGERSSAAERSARGGPGAAQLAHLHGILRRRQLY
 CRTGFHLQILPDGSVQGTRODHSFLGILEFISVAVGLVSIRGVDSGLYLGMDKGEIYKSEKLTSECFR
 EQFEENWYNTYSSNIYKHGDTGRRYFVALNKDGTPRDGARSKRHQKFTHFLPRPVDPERVPELYKDLLMY
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3026_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019851

ORF Size: 633 bp

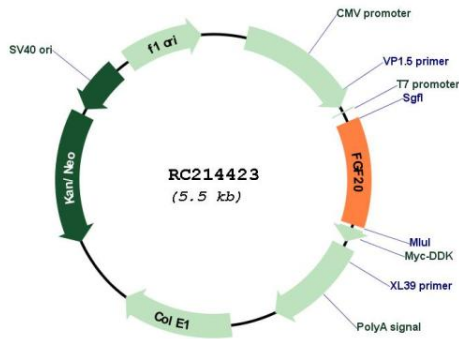
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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](#)

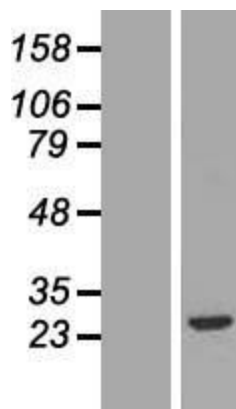
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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:	<u>NM_019851.1</u> , <u>NP_062825.1</u>
RefSeq Size:	1016 bp
RefSeq ORF:	636 bp
Locus ID:	26281
UniProt ID:	<u>Q9NP95</u>
Cytogenetics:	8p22
Protein Families:	Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	23.3 kDa
Gene Summary:	The protein encoded by this gene is a member of the fibroblast growth factor family. The fibroblast growth factors 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 product is a secreted neurotrophic factor but lacks a typical signal peptide. It is expressed in normal brain, particularly the cerebellum, and may regulate central nervous system development and function. Homodimerization of this protein was shown to regulate its receptor binding activity and concentration gradient in the extracellular matrix. Genetic variations of this gene have been associated with Parkinson disease susceptibility. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC214423



Western blot validation of overexpression lysate (Cat# [LY412719]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214423 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).