

Product datasheet for RC210242

FGF9 (NM_002010) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF9 (NM_002010) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FGF9
Synonyms: FGF-9; GAF; HBF9-9; HBGF-9; SYNS3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210242 representing NM_002010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCCTTAGGTGAAGTTGGAACTATTTCCGGTGTGCAGGATGCGGTACCGTTTGGGAATGTGCCCC
 TGTTGCCGGTGGACAGCCCGTTTTGTTAAGTGACCACCTGGGTCACTCCGAAGCAGGGGGCTCCCCAG
 GGGACCCGACGTCACGGACTTGGATCATTTAAAGGGGATTCTCAGGCGGAGGCAGCTATACTGCAGGACT
 GGATTTCACTTAGAAATCTTCCCAATGGTACTATCCAGGAACCAGAAAGACCACAGCCGATTTGGCA
 TTCTGGAATTTATCAGTATAGCAGTGGCCTGGTCAGCATTTCGAGCGTGGACAGTGGACTCTACCTCGG
 GATGAATGAGAAGGGGAGCTGTATGGATCAGAAAACTAACCAAGAGTGTGTATTAGAGAACAGTTC
 GAAGAAAAGTGGTATAATACGACTCGTCAAACCTATATAAGCACGTGGACACTGGAAGGCGATACTATG
 TTGCATTAATAAAGATGGGACCCCGAGAGAAGGGACTAGGACTAAACGGCACCAGAAATTCACACATTT
 TTTACCTAGACCAGTGGACCCCGACAAAGTACCTGAACTGTATAAGGATATTCTAAGCCAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210242 representing NM_002010
 Red=Cloning site Green=Tags(s)

MAPLGEVGNVFGVQDAVDFGNVPLPVDSPLVLLSDHLGQSEAGGLPRGPAVTDLDHLKGIILRRRQLYCRT
 GFHLEIFPNGTIQGTTRKDHRSRFGILEFISIAVGLVSIIRGVDSGLYLGMEKELYGSEKLTQECVFREQF
 EENWYNTYSSNLKXHVDTGRRYYVALNKDGTREGTRTKRHQKFTFLPRVPDPKVPPELYKDILSQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mg3007_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002010

ORF Size: 624 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.

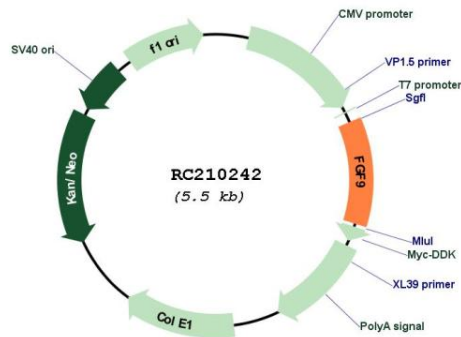
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002010.1](#), [NP_002001.1](#)

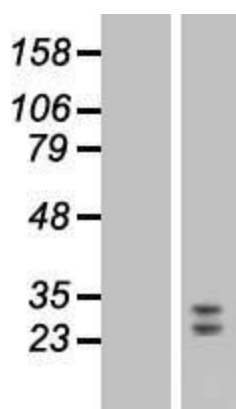
RefSeq Size: 1420 bp

RefSeq ORF: 627 bp
Locus ID: 2254
UniProt ID: [P31371](#)
Cytogenetics: 13q12.11
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW: 23.1 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 protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Expression of the mouse homolog of this gene was found to be dependent on Sonic hedgehog (Shh) signaling. Mice lacking the homolog gene displayed a male-to-female sex reversal phenotype, which suggested a role in testicular embryogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210242



Western blot validation of overexpression lysate (Cat# [LY419589]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210242 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).