

Product datasheet for **RC203750**

FGF19 (NM_005117) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF19 (NM_005117) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FGF19
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC203750 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCGGAGCGGGTGTGGTGGTCCACGTATGGATCCTGGCCGGCCTCTGGCTGGCCGTGGCCGGGGCGCC
CCCTCGCCTTCTCGGACGCGGGGCCACGTGCCTACGGCTGGGGCGACCCCATCCGCCTGCGGCACCT
GTACACCTCCGGCCCCACGGGCTCTCCAGCTGCTTCTGCGCATCCGTGCCGACGGCGTGTGGACTGC
GCGCGGGGCCAGAGCGCGCACAGTTTGTGGAGATCAAGGCAAGTCGCTCTGCGGACCGTGGCCATCAAGG
GCGTGACAGCGTGGGTACCTCTGCATGGGCGCCGACGCAAGATGCAGGGGCTGCTTCACTACTCGGA
GGAAGACTGTGCTTTCGAGGAGGAGATCCGCCAGATGGTACAATGTGTACCGATCCGAGAAGCACCGC
CTCCCGTCTCCCTGAGCAGTGCCAAACAGCGGCAGCTGTACAAGAAGAGAGGCTTTCTTCCACTCTCTC
ATTTCTGCCATGTGCCATGGTCCCAGAGGAGCCTGAGGACCTCAGGGGCCACTTGGAACTGACAT
GTTCTCTCGCCCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTACCGGACTGGAGGCCGTGAGG
AGTCCCAGCTTTGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203750 protein sequence
Red=Cloning site Green=Tags(s)

MRSQCVVHVWILAGLWLA VAGRPLAFSDAGPHVHYGWDPIRLRHL YTSGPHGLSSCFLRIRADGVVDC
ARGQSAHSLLEIKAVLRVAIKGVHSVRYLCMGADGKMQGLLQYSEEDCAFEIEIRPDGYNVYRSEKHR
LPVSLSSAKRQLYKNRGLPLSHFLPMLPMVPEPEDLRGHLESDFSSPLETDSMDPFLVLTGLEAVR
SPSFEK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

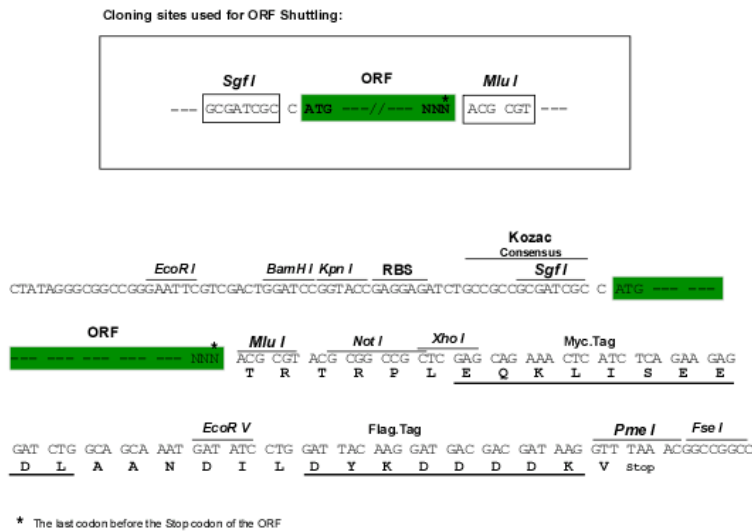


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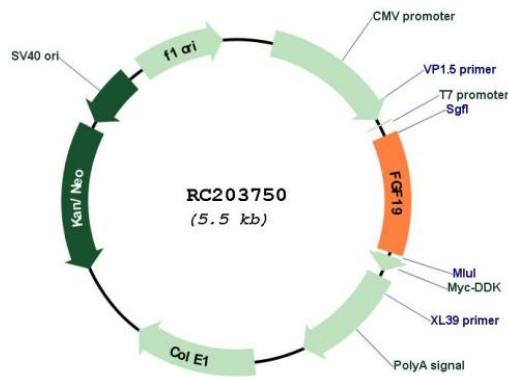
Chromatograms: https://cdn.origene.com/chromatograms/mk6305_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



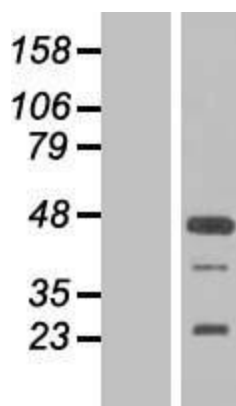
ACCN: NM_005117

ORF Size: 648 bp

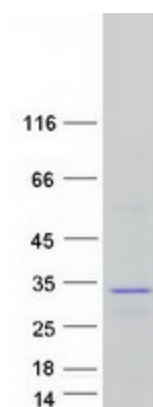
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_005117.3</u>
RefSeq Size:	2157 bp
RefSeq ORF:	651 bp
Locus ID:	9965
UniProt ID:	<u>O95750</u>
Cytogenetics:	11q13.3
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
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. This growth factor is a high affinity, heparin dependent ligand for FGFR4. Expression of this gene was detected only in fetal but not adult brain tissue. Synergistic interaction of the chick homolog and Wnt-8c has been shown to be required for initiation of inner ear development. [provided by RefSeq, Jul 2008]

Product images:

Western blot validation of overexpression lysate (Cat# [LY417507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203750 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FGF19 protein (Cat# [TP303750]). The protein was produced from HEK293T cells transfected with FGF19 cDNA clone (Cat# RC203750) using MegaTran 2.0 (Cat# [TT210002]).