

Product datasheet for **RC218442**

FGF8 (NM_033165) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF8 (NM_033165) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGF8
Synonyms:	AIGF; FGF-8; HBGF-8; HH6; KAL6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218442 representing NM_033165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTGCTGGTCTCTGCCTCCAAGCCCAGC
ATGTGAGGGAGCAGAGCCTGGTGACGGATCAGCTCAGCCGCCGCTCATCCGGACCTACCAACTCTACAG
CCGCACCAGCGGGAAGCAGCTGCAGGTCTGGCCAACAAGCGCATCAACGCCATGGCAGAGGACGGCGAC
CCCTTCGCAAAGCTCATCGTGGAGACGGACACCTTTGGAAGCAGAGTTCGAGTCCGAGGAGCCGAGACGG
GCCTCTACATCTGCATGAACAAGAAGGGGAAGCTGATCGCCAAGAGCAACGGCAAAGGCAAGGACTGCGT
CTTCACGGAGATTGTGCTGGAGAACAACCTACACAGCGCTGCAGAAATGCCAAGTACGAGGGCTGGTACATG
GCCTTCACCCGCAAGGGCCGGCCCCGCAAGGGCTCCAAGACGCGGCAGCACCAGCGTGAGGTCCACTTCA
TGAAGCGGCTGCCCCGGGGCCACCACACCCAGCAGAGCCTGCGCTTCGAGTTCCTCAACTACCCGCC
CTTCACGCGCAGCTGCGCGGCAGCCAGAGGACTTGGGCCCCGAGCCCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC218442 representing NM_033165 Red=Cloning site Green=Tags(s)
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MGSPRSALSCLLLHLLVLCLQAQHVREQSLVTDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGD
PFAKLIVETDTFGSRVRVGAETGLYICMKNKGKLIASNGKGKDCVFTEIVLENNYTALQNAKYEYGYM
AFTRKGRPRKGSKTRQHQRVHFMRKLRPGHHTTEQSLRFEFLNYPFTRSLRGSQRTWAPEPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mg4620_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033165

ORF Size: 612 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.

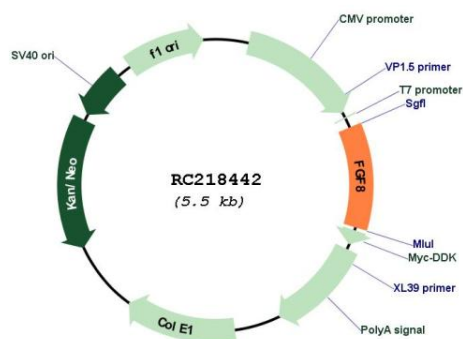
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_033165.5</u>
RefSeq Size:	987 bp
RefSeq ORF:	615 bp
Locus ID:	2253
UniProt ID:	<u>P55075</u>
Cytogenetics:	10q24.32
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	21.2 kDa
Gene Summary:	<p>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 is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogenesis. The adult expression of this gene is restricted to testes and ovaries. Temporal and spatial pattern of this gene expression suggests its function as an embryonic epithelial factor. Studies of the mouse and chick homologs revealed roles in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination. The alternative splicing of this gene results in four transcript variants. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC218442