

Product datasheet for RC223402

FGF5 (NM_004464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF5 (NM_004464) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGF5
Synonyms:	HBGF-5; Smag-82; TCMGLY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223402 representing NM_004464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTTGTCCTTCTCCTCCTCCTCCTCTTTTCAGCCACCTGATCCTCAGCGCCTGGGCTCACGGGGAGA
AGCGTCTCGCCCCAAAGGGCAACCCGGACCCGCTGCCACTGATAGGAACCCTAGAGGCTCCAGCAGCAG
ACAGAGCAGCAGTAGCGCTATGTCTTCTTCTGCTCCTCCTCCCCGCAGCTTCTCTGGGCAGCCAA
GGAAGTGGCTTGGAGCAGAGCAGTTTCCAGTGGAGCCCCGCGGGCGCCGACCGGCAGCCTCTACTGCA
GAGTGGGCATCGTTTTCCATCTGCAGATCTACCGGATGGCAAAGTCAATGGATCCACGAAGCCAATAT
GTTAAGTGTTCGAAATATTTGCTGTGTCTCAGGGATTGTAGGAATACGAGGAGTTTTTCAGCAACAAA
TTTTTAGCGATGTCAAAAAAGGAAACTCCATGCAAGTGCCAAGTTCACAGATGACTGCAAGTTTAGGG
AGCGTTTTCAAGAAAATAGCTATAATACCTATGCCTCAGCAATACATAGAAGTGAACAAAACAGGGCGGGA
GTGGTATGTGGCCCTGAATAAAGAGGAAAAGCCAAACGAGGGTGCAGCCCCGGGTTAAACCCAGCAT
ATCTCTACCCATTTCTGCCAAGATTCAAGCAGTCGGAGCAGCCAGAAGTTTCTTTCACGGTTACTGTTCT
CTGAAAAGAAAAGCCACCTAGCCCTATCAAGCCAAAGATTCCCCTTTCTGCACCTCGGAAAAATACCAA
CTCAGTGAATAACAGACTCAAGTTTCGCTTTGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223402 representing NM_004464
Red=Cloning site Green=Tags(s)

MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSASSSPAASLGSQ
 GSGLEQSSFQWSPSGRRTGSLYCRVIGIFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNK
 FLAMSKKGLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRKAKRGCSPRVKPQH
 ISTHFLPRFKQSEQPELSFTVTVPEKKKPPSPIKPKIPLSAPRKNTNSVKYRLKFRFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6113_b05.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_004464

ORF Size: 804 bp

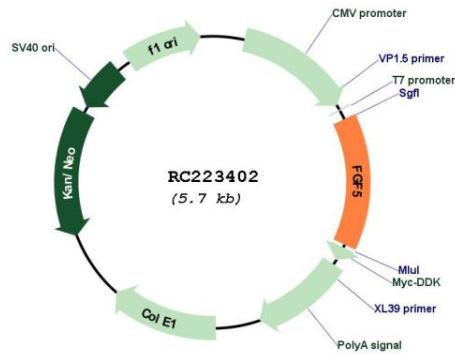
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

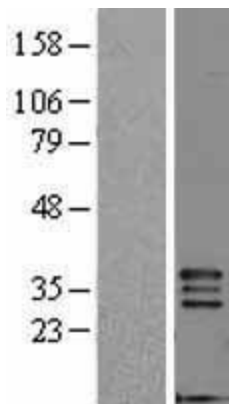
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	NM_004464.3 , NP_004455.2
RefSeq Size:	5399 bp
RefSeq ORF:	807 bp
Locus ID:	2250
UniProt ID:	P12034
Cytogenetics:	4q21.21
Domains:	FGF
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	29.55 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 gene was identified as an oncogene, which confers transforming potential when transfected into mammalian cells. Targeted disruption of the homolog of this gene in mouse resulted in the phenotype of abnormally long hair, which suggested a function as an inhibitor of hair elongation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC223402



Western blot validation of overexpression lysate (Cat# [LY401420]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223402 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).