

## Product datasheet for **RC217444**

### FGF6 (NM\_020996) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF6 (NM\_020996) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FGF6  
**Synonyms:** HBGF-6; HST2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC217444 representing NM\_020996  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGGGACAGAACTGTTCACTACTATGTCCCGGGAGCAGGACGTCTGCAGGGCAGCTGTGGG  
CTCTCGTCTTCTAGGCATCCTAGTGGCATGGTGGTGCCTCGCTGCAGGCACCCGTGCCAACACAC  
GCTGCTGGACTCGAGGGCTGGGCACCCTGCTGTCCAGGTCTCGCGGGGCTAGCTGGAGAGATTGCC  
GGGTGAACTGGAAAGTGGCTATTTGGTGGGATCAAGCGGCAGCGGAGGCTCTACTGCAACGTGGCA  
TCGGCTTTCACCTCCAGGTGCTCCCGACGGCCGGATCAGCGGGACCCACGAGGAGAACCCTACAGCCT  
GCTGGAATTTCCACTGTGGAGCGAGGCGTGGTGAAGTCTTTGGAGTGAGAAGTGCCCTTTCGTTGCC  
ATGAACAGTAAAGGAAGATTGTACGCAACGCCAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCTCC  
TGCCCAACAATTACAATGCCTACGAGTCAGACTTGTACCAAGGGACCTACATTGCCCTGAGCAAATACGG  
ACGGGTAAGCGGGCAGCAAGGTGCCCCGATCATGACTGTCACTCATTTCCTCCAGGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217444 representing NM\_020996  
**Red**=Cloning site **Green**=Tags(s)

MALGQKLFITMSRGAGRLQGLWALVFLGILVGMVVPSPAGTRANNTLLDSRGWGTLLSRSRAGLAGEIA  
GVNWESGYLVGIKRRLYCNVIGFHLQVLPDGRISGTHEENPYSLEISTVERGVVSLFGVRSALFVA  
MNSKGRLYATPSFQECKFRETLLPNNYAYESDLYQGTIALSKYGRVKRGSKVSPIMTVTHFLPRI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6288\\_a04.zip](https://cdn.origene.com/chromatograms/mk6288_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020996

**ORF Size:** 624 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](mailto: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:**

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\\_020996.1](#), [NP\\_066276.2](#)

**RefSeq Size:** 744 bp

**RefSeq ORF:** 627 bp

**Locus ID:** 2251

**UniProt ID:** [P10767](#)

**Cytogenetics:** 12p13.32

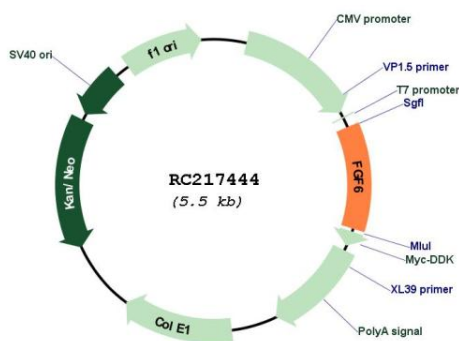
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

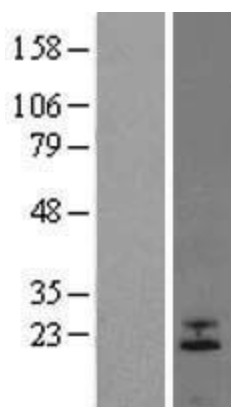
**MW:** 17.7 kDa

**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 gene displayed oncogenic transforming activity when transfected into mammalian cells. The mouse homolog of this gene exhibits a restricted expression profile predominantly in the myogenic lineage, which suggested a role in muscle regeneration or differentiation. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC217444



Western blot validation of overexpression lysate (Cat# [LY412113]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217444 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).