

## Product datasheet for RC217058

### FGF4 (NM\_002007) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF4 (NM\_002007) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FGF4  
**Synonyms:** FGF-4; HBGF-4; HST; HST-1; HSTF-1; HSTF1; K-FGF; KFGF  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC217058 representing NM\_002007  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGGGCCGGGACGGCCGGTAGCGCTGCTCCCGCGGTCTGCTGGCCTTGTGGCGCCCTGGG  
CGGGCCGAGGGGGCGCCCGCACCCACTGCACCAACGGCAGCTGGAGCCGAGCTGGAGCGCCGCTG  
GGAGAGCCTGGTGGCGCTCTCGTTGGCGCGCTCCGGTGGCAGCGCAGCCAAGGAGGGCGCCGCTCCAG  
AGCGGCGCCGGGACTACCTGCTGGGCATCAAGCGGCTGCGGCGGCTCTACTGCAACGTGGGCATCGGCT  
TCCACCTCCAGGCGCTCCCGACGGCCGCATCGGCGGCGCGCACGCGGACACCCGCGACAGCCTGCTGGA  
GCTCTCGCCCGTGGAGCGGGGCGTGGTGAAGCATCTTCGGCGTGGCCAGCCGGTTCTTCGTGGCCATGAGC  
AGCAAGGGCAAGCTCTATGGCTCGCCCTTCTTACCGATGAGTGCACGTTCAAGGAGATTCTCTTCCCA  
ACAACACTACAACGCTACGAGTCTACAAGTACCCCGCATGTTTCATCGCCCTGAGCAAGAATGGGAAGAC  
CAAGAAGGGGAACCGAGTGTGCCCCACCATGAAGGTCACCCACTCTCTCCCGAGGCTG

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217058 representing NM\_002007  
Red=Cloning site Green=Tags(s)

MSGPGTAAVALLPAVLLALLAPWAGRGGAAAPTAPNGTLEAELERRWESLVALSLARLPVAAQPKEAAVQ  
SGAGDYLLGIKRLRRLYCNVIGIFHLQALPDGRIGGAHADTRDLSLELSPVERGVVSIIFGVASRFFVAMS  
SKGKLYGSPFFTDECTFKEILLPNYNAYESYKYPGMFIALSKNGKTKGNRVSPMKVTHFLPRL

**TRTRP**LEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6266\\_c03.zip](https://cdn.origene.com/chromatograms/mk6266_c03.zip)



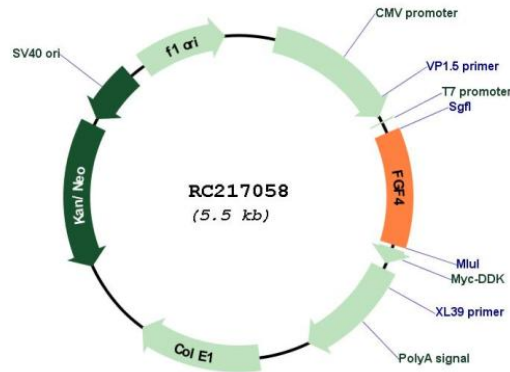
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_002007

ORF Size: 618 bp

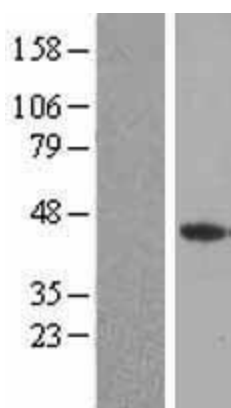
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

RefSeq: [NM\\_002007.4](#)

RefSeq Size:	1219 bp
RefSeq ORF:	621 bp
Locus ID:	2249
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	21.9 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 was identified by its oncogenic transforming activity. This gene and FGF3, another oncogenic growth factor, are located closely on chromosome 11. Co-amplification of both genes was found in various kinds of human tumors. Studies on the mouse homolog suggested a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway. [provided by RefSeq, Jul 2008]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY419590]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217058 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).