

Product datasheet for **RG217058**

FGF4 (NM_002007) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF4 (NM_002007) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FGF4
Synonyms: FGF-4; HBGF-4; HST; HST-1; HSTF-1; HSTF1; K-FGF; KFGF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217058 representing NM_002007
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGGCCCGGACGGCCGGTAGCGCTGCTCCCGCGGTCTGCTGGCCTTGTGGCGCCCTGGG
 CGGGCCGAGGGGGCGCCCGCACCCACTGCACCAACGGCAGCTGGAGCCGAGCTGGAGCGCCGCTG
 GGAGAGCCTGGTGGCGCTCTCGTTGGCGCGCTGCCGGTGGCAGCGCAGCCCAAGGAGCGGCCGCTCCAG
 AGCGGCGCCGGCGACTACCTGCTGGGCATCAAGCGGCTGCGGCGGCTCTACTGCAACGTGGGCATCGGCT
 TCCACCTCCAGGCGCTCCCGACGGCCGCATCGGCGGCGCGCACGCGGACACCCGCGACAGCCTGCTGGA
 GCTCTCGCCCGTGGAGCGGGCGTGGTGAAGCATCTTCGGCGTGGCCAGCCGGTCTCTGTGGCCATGAGC
 AGCAAGGGCAAGCTCTATGGCTCGCCCTTCTTACCGATGAGTGACGTTCAAGGAGATTCTCTTCCCA
 ACAACTACAACGCCTACGAGTCTACAAGTACCCCGGCATGTTTCATCGCCCTGAGCAAGAATGGGAAGAC
 CAAGAAGGGGAACCGAGTGTGCGCCACCATGAAGGTCACCCACTTCTCCCCAGGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217058 representing NM_002007
 Red=Cloning site Green=Tags(s)

MSGPGTAAVALLPAVLLALLAPWAGRGGAAAPTAPNGTLEAELERRWESLVALSLARLPVAAQPKEAAVQ
 SGAGDYLLGIKRLRRLYCNVIGIFHLQALPDGRIGGAHADTRDSLLELSPVERGVVSIIFGVASRFFVAMS
 SKGKLYGSPFFTDECTFKEILLPNYNAYESYKYPGMFIALSKNGKTKKGNRVSPMKVTHFLPRL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


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.

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_002007.4](#)

RefSeq Size: 1219 bp

RefSeq ORF: 621 bp

Locus ID: 2249

UniProt ID: [P08620](#)

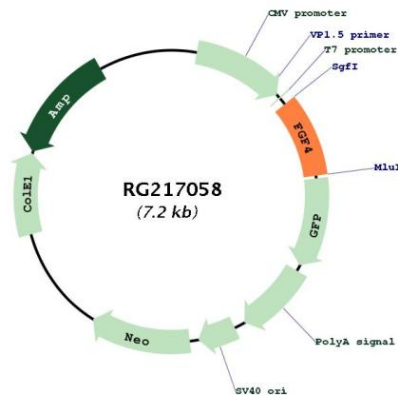
Cytogenetics: 11q13.3

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

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:



Circular map for RG217058