

Product datasheet for **RG217426**

FGF2 (NM_002006) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF2 (NM_002006) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FGF2
Synonyms: BFGF; FGF-2; FGFB; HBGF-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217426 representing NM_002006
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

CTGGTGGGTGTCGGGGTGGAGATGTAGAAGATGTGACGCCGCGGCCCGGGTCCAGATTAGCGGAC
 GCGCTGCCCGGTTGCAACGGGATCCCGGGCGCTGCAGCTTGGGAGGCGGCTCTCCCAGGCGCGTCC
 GCGGAGACACCCATCCGTGAACCCAGGTCCCGGGCCCGGCTCGCCGCGCACCAGGGCCGGCGGACA
 GAAGAGCGGCCGAGCGGCTCGAGGCTGGGGACC GCGGGCGCGCCGCGCTGCCGGCCGGGAGGCTGG
 GGGCCCGGGCCGGGGCTGCCCGGAGCGGGTCCGAGGCCGGGGCCGGGGCCGGGGACGGCGGCTCC
 CCGCGCGGCTCCAGCGGCTCGGGGATCCCGGCCGGGCCCGCAGGGACCATGGCAGCCGGGAGCATCACC
 ACGCTGCCCGCCTTGCCCGAGGATGGCGGACGGCGCCTTCCCGCCGGCCACTTCAAGGACCCCAAGC
 GGCTGTAATGCAAAAACGGGGGCTTCTTCTGCGCATCCACCCGACGGCCGAGTTGACGGGGTCCGGGA
 GAAGAGCGACCCTCACATCAAGCTACAATTCAAGCAGAAGAGAGAGGAGTTGTGTCTATCAAAGGAGTG
 TGTGCTAACCGTTACCTGGCTATGAAGGAAGATGGAAGATTACTGGCTTCTAAATGTGTTACGGATGAGT
 GTTCTTTTTTGAACGATTGGAATCTAATAACTACAATACTTACCGGTCAAGGAAATACACCAGTTGGTA
 TGTGGCACTGAAACGAACTGGGCAGTATAAACTGGATCCAAAACAGGACCTGGGCAGAAAGCTATACTT
 TTTCTTCCAATGTCTGCTAAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217426 representing NM_002006
Red=Cloning site Green=Tags(s)

LVGVGGGDVEDVTPRPGGCQISGRAARGCNGIPGAAWEAALPRRRPRRHPSVNPRAAGSPRTRGRRT
 EERPSGSRLGDRGRGRALPGGRLGGRGRGRAPERVGGRRGRGTAAPRAAPAARGSRPGPAGTMAAGSIT
 TLPALPEDGGSGAFPPGHFKDKPKRLYCKNGGFFLRIHDPGRVDGVREKSDPHIKLQLQAEERGVSIGV
 CANRYLAMKEDGRLLASKCVTDECFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQKAIL
 FLPMSAKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002006

ORF Size: 864 bp

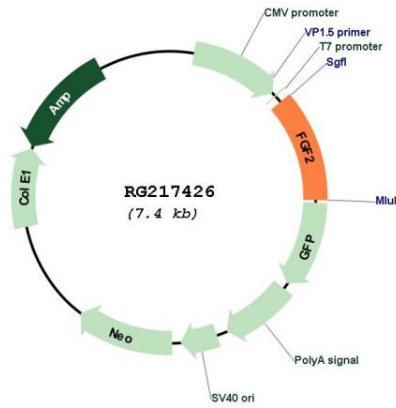
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_002006.3</u> , <u>NP_001997.4</u>
RefSeq Size:	6803 bp
RefSeq ORF:	867 bp
Locus ID:	2247
UniProt ID:	<u>P09038</u>
Cytogenetics:	4q28.1
Domains:	FGF
Protein Families:	Druggable Genome, Secreted Protein
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 bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217426