

## Product datasheet for **RC231871**

### FGF1 (NM\_001257212) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF1 (NM\_001257212) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FGF1  
**Synonyms:** AFGF; ECGF; ECGF-beta; ECGFA; ECGFB; FGF-1; FGF-alpha; FGFA; GLIO703; HBGF-1; HBGF1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231871 representing NM\_001257212  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGAAGGGAAATCACCACCTTCACAGCCCTGACCGAGAAGTTTAATCTGCCTCCAGGAATTACA  
 AGAAGCCCAAACCTCTACTGTAGCAACGGGGCCACTTCTGAGGATCCTCCGGATGGCACAGTGA  
 TGGGACAAGGGACAGGAGCGACCAGCACATTCAGCTGCAGCTCAGTGCAGAAAGCGTGGGGAGGTGAT  
 ATAAAGAGTACCGAGACTGGCCAGTACTTGGCCATGGACACCGACGGGCTTTTATACGGCTCAACACCAA  
 ATGAGGAATGTTTGTTCCTGAAAGGCTGGAGGAGAACCATTACAACACCTATATATCCAAGAAGCATGC  
 AGAGAAGAATTGGTTTGTGGCCTCAAGAAGAATGGGAGCTGCAAACCGGCTCTCGGACTCACTATGGC  
 CAGAAAGCAATCTGTTTCTCCCCTGCCAGTCTCTTCTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231871 representing NM\_001257212  
 Red=Cloning site Green=Tags(s)

MAEGEITFTALTEKFNLPNGYKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVY  
 IKSTETGQYLAMDTDGLLYGSTPNEECLFLERLEENHYNTYISKHAEKNWFVGLKKNCSCKRGRPTHYG  
 QKAILFLPLPVSSD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

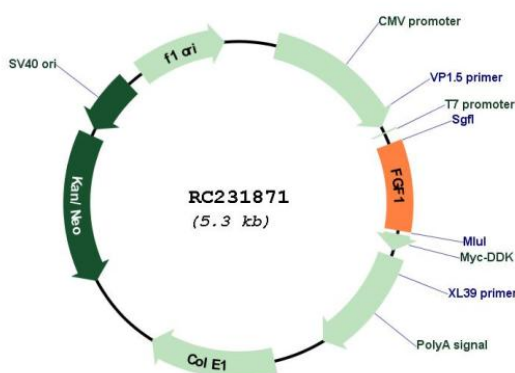
**Restriction Sites:** SgfI-MluI



## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001257212

ORF Size: 462 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001257212.2</u>
<b>RefSeq Size:</b>	3679 bp
<b>RefSeq ORF:</b>	465 bp
<b>Locus ID:</b>	2246
<b>Cytogenetics:</b>	5q31.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>MW:</b>	17.8 kDa
<b>Gene Summary:</b>	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 protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]