

## Product datasheet for SC111631

### FGF1 (NM\_000800) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGF1 (NM_000800) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGF1
Synonyms:	AFGF; ECGF; ECGF-beta; ECGFA; ECGFB; FGF-1; FGF-alpha; FGFA; GLIO703; HBGF-1; HBGF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000800 edited  
 CCGCCACATTATCTCCATTCCTCCAGTGCCCGCCTGACACTGGCCCTGAATCAGGGCTGG  
 AGGGGGCAGGCATTTCTCATTACTAAAGTGCTGGATGCAGCCCTTGAGGTTTCGGCAGAA  
 GCAGAAAAGCTGCGTCTTGAAAGCGCCACAAGCAGCAGCTGCTGAGCCATGGCTGAAGGGG  
 AAATCACACCTTCACAGCCCTGACCGAGAAGTTAATCTGCCTCCAGGGAATTACAAGA  
 AGCCAAACTCCTCTACTGTAGCAACGGGGGCCACTTCCTGAGGATCCTTCGGATGGCA  
 CAGTGGATGGGACAAGGGACAGGAGCGACCAGCACATTAGCTGCAGCTCAGTGCAGGAAA  
 GCGTGGGGAGGTGTATATAAGAGTACCGAGACTGGCCAGTACTGGCCATGGACACCG  
 ACGGGCTTTTACGGCTCACAGACACCAATGAGGAATGTTTGTCTGGAAAGGCTGG  
 AGGAGAACCATTACAACACCTATATATCCAAGAAGCATGCAGAGAAGAATTGGTTTGTG  
 GCCTCAAGAAGAATGGGAGCTGCAAACGGGTCTCGGACTCACTATGGCCAGAAAGCAA  
 TCTTGTCTCCCGCTGCCAGTCTCTTCTGATTAAGAGATCTGTTCTGGGTGTTGACCA  
 CTCCAGAGAAGTTTCGAGGGGTCCTCACCTGGTTGACCAAAAATGTTCCCTTGACCATT  
 GGCTGCGTAACCCCGAGCCACAGAGCCTGAATTTGTAAGCAACTTGCTTCTAAATGCC  
 CAGTTCACCTCTTTCAGAGCCTTTTACCCTGCACAGTTTAGAACAGAGGGACCAAAAT  
 GCTTCTAGGAGTCAACTGGCTGGCCAGTCTGGGTCTGGTTTGGATCTCCAATTGCCTCT  
 TGCAGGCTGAGTCCCTCCATGCAAAAGTGGGGCTAAATGAAGTGTGTTAAGGGGTGCGCT  
 AAGTGGGACATTAGTAACTGCACACTATTTCCCTCTACTGAGTAAACCCTATCTGTGATT  
 CCCCCAACATCTGGCATGGCTCCCTTTTGTCTTCTGTCCTGCCCCGCAAATATTAGCAA  
 GAAGCTTCATGCCAGGTTAGGAAGGCAGATTCCATGACCAGAAAACAGGGACAAAAGAAAT  
 CCCCCCTTCAGAACAGAGGCATTTAAAATGAAAAGAGAGATTGGATTTTGGTGGGTAAC  
 TTAGAAGGATGGCATCTCCATGTAGAATAAATGAAGAAAGGGAAGGCCAGCCGCGCAGGA  
 AGGCAGAATAAATCCTTGGGAGTCATTACCACGCCTTGACCTTCCAAGTTACTCAGCA  
 GCAGAGAGCCCTGGGTGACTTCAG



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000800 unedited            TGTATACGACTCACTATAGGCGGCACGCGATTCCGGCACGAGGGCCGCCACATTATCTCCA            TTCCTCCAGTGCCCGCCTGACACTGGCCCTGATNAGGGCTGGAGGGGCGAGGCATTTCTC            ATTTACTAAAGTGCTGGATGCAGCCCTTGAGGTTCCGGCAGAAGCAGAAAGCTGCGTCTTG            AAAGCGCCACAAGCAGCAGCTGCTGAGCCATGGCTGAAGGGGAAATCACCACCTTCACAG            CCCTGACCGAGAAGTTTAACTGCCTCCAGGGAATTACAAGAAGCCAAACTCCTCTACT            GTAGCAACGGGGCCACTTCCTGAGGATCCTTCCGGATGGCACAGTGGATGGGACAAGGG            ACAGGAGCGACCAGCACATTCAGCTGCAGCTCAGTGCGGAAAGCGTGGGGGAGGTGTATA            TAAAGAGTACCGAGACTGGCCAGTACTTGCCATGGACACCGACGGGCTTTTATACGGCT            CACAGACACCAAATGAGGAATGTTTGTCTGAAAGGCTGGAGGAGAACCATTACAACA            CCTATATATCCAAGAAGCATGCAGAGAAGAATTGGTTTGNTTGGCCTCAAGAAGAATGGG            AGCTGCAAACGCGGTCTCGGACTCACTATGGCCAGAAAGCAATCTTGTCTTCTNCCCCT            GCCAGTCTCTTGATTAAGAGATCTGNTCTGGGGTGTGACCACTCCAGAGAAAGTTC            GAGGGTCTCACCTGGNTTACCAAAAATGTTCCCTTGACCATTGGCTGGNCTAACCC            CAGCCNACAGAGCCTGATTNTGTAGCACTTGCTTCTAATGCCAGTCACTTCTGCAGAG            CTTTACCTGCCAGTTAAACAGAGGACAAATGCTCTAGATCACTGCTGGCACCCGGNCT            GTTAGACCTCAATGCTCTGCGGTGATCCTCTGCAATG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000800
<b>Insert Size:</b>	4690 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_000800.2</a> , <a href="#">NP_000791.1</a>
<b>RefSeq Size:</b>	2357 bp

RefSeq ORF: 468 bp  
Locus ID: 2246  
UniProt ID: [P05230](#)

Cytogenetics: 5q31.3

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 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]  
Transcript Variant: This variant (1) encodes the full-length isoform (1). Variants 1, 4-7, 9-12, and 15-20 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.