

Product datasheet for **SC118884**

FGF2 (NM_002006) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF2 (NM_002006) Human Untagged Clone
Tag: Tag Free
Symbol: FGF2
Synonyms: BFGF; FGF-2; FGFβ; HBGF-2
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002006 edited
 GAATTCGGCACGAGGGGAGGAGGAGAAGACTGGGGCGCGGGAGGCTGGTGGGTGTGGGG
 GTGGAGATGTAGAAGATGTGACCGCGGCCCGCGGGTCCAGATTAGCGGACGCGGTG
 CCCGCGGTTGCAACGGGATCCCGGGCGCTGCAGCTTGGGAGGCGGCTCTCCCAGCGGG
 GTCGCGGAGACACCCATCCGTGAACCCAGGTCCCGGGCGCGGCTCGCCGCGCACCA
 GGGCGCGCGGACAGAAGAGCGGCCGAGCGGCTCGAGGCTGGGGACCGCGGGCGCGCC
 GCGCGCTGCCGGCGGGAGGCTGGGGGCGGGGCGGGGCGGCGTCCCGGAGCGGGTGC
 GAGGCCGGGGCGGGGCGGGGACGGCGGCTCCCGCGCGGCTCCAGCGGCTCGGGAT
 CCCGGCCGGGCCCGCAGGGACCATGGCAGCCGGGAGCATCACCACGCTGCCCGCCTTGC
 CCGAGGATGGCGGACGCGGCTTCCCGCCCGCCACTTCAAGGACCCAAAGCGGCTGT
 ACTGCAAAAACGGGGCTTCTTCTGCGCATCCACCCGACGGCCGAGTTGACGGGTCC
 GGGAGAAGAGCGACCCTCACATCAAGCTACAACCTCAAGCAGAAGAGAGAGGAGTTGTGT
 CTATCAAAGGAGTGTGTGCTAACCGTTACCTGGCTATGAAGGAAGATGGAAGATTACTGG
 CTTCTAAATGTGTACGGATGAGTGTCTTTTTTTGAACGATTGGAATCTAATAACTACA
 ATACTTACCGGTCAAGGAAATACACCAGTTGGTATGTGGCACTGAAACGAACTGGGCAGT
 ATAAACTTGGATCCAAAACAGGACCTGGGCAGAAAAGCTATACTTTTTCTTCCAATGTCTG
 CTAAGAGCTGATTTTAAATGGCCACATCTAATCTCATTTCACATGAAAGAAGAAGTATATT
 TTAGAAATTTGTTAATGAGAGTAAAAGAAAATAAATGTGTATAGCTCAGTTTGGATAATT
 GGTCAAACAATTTTTATCCAGTAGTAAAATATGTAACCATTTGCCAGTAAAGAAAAAT
 AACAAAAGTTGTAATGTATATTCTCCCTTTTATATTGCATCTGCTGTTACCCAGTGAA
 GCTTACCTAGAGCAATGATCTTTTTTACGCATTTGCTTTATTCGAAAAGAGGCTTTTAA
 ATGTGCATGTTTAGAAACAAAATTTCTTCATGGAATCATATACATTAGAAAATCACAGT
 CAGATGTTTAAATCAATCCAAAATGTCCACTATTTCTTATGTCATTGCTAGTCTACATGT
 TTCTAAACATATAAATGTGAATTAATCAATTCCTTTTCATAGTTTATAATTCTCTGGCA
 GTTCTTATGATAGAGTTTATAAACAGTCCTGTGTAACCTGCTGGAAGTTCTTCCACAG
 TCAGGTCAATTTGTCAAACCTTCTCTGTACCCATACAGCAGCAGCCTAGCAACTCTGC
 TGGTGATGGGAGTTGATTTTCAGTCTTCGCCAGGTCATTGAGATCCATCCACTCACATC



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002006 unedited
 ACATTTTGTATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGGAGGGAGGAG
 AACTGGGGGCGCGGGAGGCTGGTGGGTGTGGGGGTGGAGATGTAGAAGATGTGACGCCG
 CGGCCCGGCGGGTGCCAGATTAGCGGACGCGGTGCCCGCGGTTGCAACGGGATCCCGGGC
 GCTGCAGCTTGGGAGGCGGCTCTCCCAGGCGCGTCCGCGGAGACCCATCCGTGAAC
 CCCAGGTCCCAGGCGCGGCTCGCCGCGCACCAGGGGCGCGGACAGAAGAGCGGGCCG
 AGCGGCTCGAGGCTGGGGACCGCGGGCGCGCCGCGCTGCCGGGCGGGAGGCTGGGG
 GGCCGGGGCCGGGCGGTGCCCGGAGCGGGTCGGAGGCCGGGGCCGGGGCCGGGGGACG
 GCGGCTCCCCGCGCGGCTCCAGCGGCTCGGGGATCCCGGCCGGGCCCGCAGGGACCATG
 GCAGCCGGGAGCATCACCACGCTGCCCGCCTTGCCCGAGGATGGCGGACGCGGCCCTTC
 CCGCCCGGCCACTTCAAGGACCCCAAGCGGCTGTACTGCAAAAACGNGGCTTCTTCTG
 CGCATCCACCCGACGGCCGAGTTGACTGGGTCCGGGAGAAGAGCGACCCTCACATCAAG
 CTACAACTTAAGCAGAAGAGAGAGGAGTTGTGTCTATCAAATGAGTGTGTGCTAACCGT
 TACCTGGCTATGAACGAAGAATGGAAGATTACTGGCTTCTAAAGTGTACCGATGAGTGT
 TTCTCTTTTACCAGATCGGAATCTATTACTACAATCTTCCCGTCAAGGAATACACCATT
 TGGTTTGTGGCACTGAACAACTGCGCGCTTAACCTCGGATCCAAAAGGAAGTGGCAGAA
 AGCTTTCTTTTCTTCAAGTTGCTAAAACCTATTTAATGGCCCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002006 unedited
 TGTTGTTTTTCATCCTAATTCTATTATTAATATAACAAAATAGAAATAACAAATATAAA
 CTCATTTTCATTATTGTCTGTAACATAACAAAACAATACAACATATTTAAACATATCTC
 TTCATCAGCAAAAATAAAAAAAAACCTCTTAGTTTTTCTATGTTCTTCAAACCTATAA
 AACAGCAAATGTTATTTTCAGTTTGGCTTACAGTATATTAATAATAAAAAATACAACAG
 AATAAAGCACACTATCTTGATTAATAATTTCAATTCATCTTGAATCCTTGGGAAGAAA
 TATCCATCTTGAGGTGGAAGGTCTCCCGCATACTCTGGAGACAAAAGCACTTATTTGCC
 CATTCAATTTTCAGTCAGTTAGTGATTCAAGTTAACTGATCAAACTACTCAGGCAGTG
 CTGATTTTCAGTCAGCTGCTATGGTGACTGTGAGCAGGGCAGATTTGCTCACTACCCCC
 ATCCGGTCTTCCACGACATAGAAACAGCATAGATCATGAGCTACATGCCGAACTTTTGA
 TTAGTGGTACTAAGAGCTAAATAGGATCCCATATTTATTTTCAAACATAAAGAATAAA
 AATGGACATTTAAACAAGTTAGGAGATGTTATATCAAATTAAGACTAGTGCTACTATCT
 CTAATAATAAATTTAATAACAAACATGTATCTCCCATATTTATCTTTCACAGCATAATG
 AATAAAAAATGGACATTTAAACATGTTAGGGGATATTTTATACAATTTAAGACTAGTGCTA
 CCATCTTAAATATAAATTTATAACACTGTATTGCACATCAGAGTAAAAACTTTTCTAT
 AAGGAAATTTCTTTTTTTGAGACAAGTCTACTCTGTGGCTAGCCTGACTGCAATGCAC
 GATATTGCTCACTGCACTCTGACTCTCAGCCCCAGGATTACCCTTCCACTCAGCTCCAA
 GGATTGNAACACATGCCCNCCACT

Restriction Sites:

Please inquire

ACCN:

NM_002006

Insert Size:

867 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	NM_002006.3 , NP_001997.4
RefSeq Size:	6803 bp
RefSeq ORF:	867 bp
Locus ID:	2247
UniProt ID:	P09038
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:	<p>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]</p> <p>Transcript Variant: This transcript may encode multiple distinct isoforms through the use of alternative translation start codons (PMID: 17131363). This record represents use of the 5' most non-AUG start codon and encodes the longest (34-kDa) isoform. 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.</p>