

## Product datasheet for **SC304675**

### FGF21 (NM\_019113) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGF21 (NM_019113) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGF21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene sequence for NM_019113 edited</p> <pre>GAGGCTTCCAAGGCAGGATACTGTGTCTCAGATGCGGTGCTTCTTTCATACAGCAATT GCCGCCTTGCTGAGGATCAAGGAACCTCAGTGTGATCAGCCCTCCCCCAAACCTTAG AAATTCAGATGGGGCGCAGAAATTTCTCTTGTCTGCGTGATCTGCATAGATGGTCCAAG AGGTGGTTTTTCCAGGAGCCAGCACCCCTCCTCCCTCCGACTCAGACCCAGGAGTCTGG CCCTCCATTGAAAGGACCCAGGTTACATCATCCATTCAGGCTGCCCTTGCCACGATGGA ATTCTGTAGTCTGCCAAATGGGTCAAATATCATGGTTCAGGCGCAGGGAGGGTGATTG GGCGGGCTGTCTGGGTATAAATTTCTGGAGCTTCTGCATCTATCCAAAAACAAGGGTG TTCTGTGACGTGAGGATCCAGCCGAAAGAGGAGCCAGGCACTCAGGCCACCTGAGTCTAC TCACCTGGACAACCTGGAATCTGGACCAATTCTAAACCACTCAGCTTCTCCGAGCTCACA CCCCGGAGATCACCTGAGGACCCGAGCCATTGATGGACTCGGACGAGACCGGGTTCGAGC ACTCAGGGCTGTGGGTTTCTGTGCTGGCTGGTCTTCTGCTGGGAGCCTGCCAGGCACACC CCATCCCTGACTCCAGTCTCTCCTGCAATTCGGGGGCCAAGTCCGGCAGCGGTACCTCT ACACAGATGATGCCAGCAGACAGAAGCCACCTGGAGATCAGGGAGGATGGGACGGTGG GGGGCGTGTGACCAGAGCCCCGAAAGTCTCCTGCAGCTGAAAGCCTTGAAGCCGGGAG TTATTCAAATCTGGGAGTCAAGACATCCAGGTTCTGTGCCAGCGGCCAGATGGGGCCC TGTATGGATCGCTCCACTTTGACCCTGAGGCTGCAGCTTCCGGGAGCTGCTTCTTGAGG ACGGATAACAATGTTTACCAGTCCGAAGCCACGGCCTCCCGCTGCACCTGCCAGGGAACA AGTCCCCACACCGGGACCCTGCACCCCGAGGACCAGCTCGCTTCTGCCACTACCAGGCC TGCCCCCGCACCCCGAGCCACCCGGAATCCTGGCCCCCAGCCCCCGATGTGGGCT CCTCGGACCCTCTGAGCATGGTGGGACCTTCCCAGGGCCGAAGCCCCAGCTACGTTCTCT GAAGCCAGAGGCTGTTTACTATGACATCTCCTCTTTATTTATTAGGTTATTTATCTTATT TATTTTTTTATTTTTTCTTACTTGAGATAATAAAGAGTTCTAGAGGAGGATAAAAAAAAAA AA</pre>



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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_019113 unedited  
 NNGGGTGGCGTACGAATTTTGTAAACGACTCACTATAGGGCGGACCGCGATTGATGATCT  
 GGTACCGGTCCGGAAATCCCGGGATATCGTCGACCCACGCGTCCGCCACGCGTCCGGAG  
 GCTTCCAAGGCAGGATACTTGTGTCTCAGATGCGGTGCGTTCTTTTCATACAGCAATTGCC  
 GCCTTGTGAGGATCAAGGAACCTCAGTGTGATCAGATCACGCCCTCCCCCAAACCTAGAAA  
 TTCAGATGGGGCGCAGAAATTTCTTTGTTCTGCGTGATCTGCATAGATGGTCCAAGAGG  
 TGGTTTTCCAGGAGCCAGCACCCCTCCTCCCTCCGACTCAGACCCAGGAGTCTGGCC  
 TCCATTGAAAGGACCCAGGTTACATCATCCATTAGGCTGCCCTTGCCACGATGGAATT  
 CTGTAGCTCCTGCCAAATGGGTCAAATATCATGGTTCAGGCGCAGGGAGGGTGATTGGGC  
 GGGCCTGTCTGGGTATAAATCTGGAGCTTCTGCATCTATCCCAAAAAACAAGGGTGTTCT  
 TGTGAGCTGAGGATCCAGCCGAAAGAGGAGCCAGGCACTCAGGCCACCTGAGTCTACTCA  
 CCTGGACAACCTGGAATCTGGACCAATTCTAAACCACTCAGCTTCTCCGAGCTCACACCC  
 CGGAGATCACCTGAGGACCCGAGCCATTGATGGACTCGGACGAGACCGGGTTCGAGCACT  
 CAGGGCTGTGGGTTTCTGTGCTGGCTGGTCTTCTGCTGGGAGCCTGCCAGGCACACCCCA  
 TCCTGACTCCAGTCTCTCCTGGCATTGGGGGCCAAGTCCGGCAGCGGTACCTCTACA  
 CAGATGATGCCAGCAGACAGAAGCCACCTGGNAATCAGGGAGATGGGACNGTNGGGGG  
 CGCTGCTGAC

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_019113 unedited  
 AGAGCCATTGGGGGAATGGGTTCACCAGGAATCCACCCGGGCATTTTTTCAGGAAAAGCT  
 TATGACCGCGCCGCCCTAATTT  
 TTTTTTTTTTTTTTTTTTAAACCCCTCTAAAACCTTTTATTATCTCAAGTTAGAAAAA  
 TAAAAAATAAATAAGATAAATAACCTAATAAATAAAGAGGAGATGTCATAGTAAACAGC  
 CTTTGGCTTCAAGAAACGTAACCTGGGGCTTCGGCCCTGGGAAGGTCCCACCATGCTCAGA  
 GGGTCCGAGGAGCCACATCGGGGGCTGGGGGGCCAGGATTCCGGGTGGCTCCGGGGT  
 GCGGGGGCAGGCTGGTGTGAGGAGGAAAGCGAGCTGGTCTCGGGTGCAGGGTCCCGG  
 TGTGGGACTTTGTCCCTGGCAGGTGCAACGGGAGGCCGTGGGCTTCGACTGGTAAACA  
 TTGTATCCGTCTCAAGAAGCAGCTTCGGGAAGCTGCAGGCCCTCAGGTCAAAGTGGAGC  
 GATTACATACAGGGCCCATCTGGGCCCTGGCACAGGAACCCTGAAGTTTTTGACTCCCAA  
 GATATTGATAACTCCCGCTTCAAAGCTTTTAACTGCAGGAACTTTTGGGGGCTTTTG  
 GTAANAAACGCCCCACCGTCCATTCCCTGATTTCCAGGTGGGCTTTCTGTCTGG  
 CTGGGCATCATCTTGTTTAAAGTCCCGCTTGCCCGGAATTGGGCCCAAAATGCAAGG  
 AAAAGACTTGAGTACGATTGGGGTGTGCCTTGAAAAGCCTCCCAGCAAAAAACCC  
 GCCCGACAAGAACCCCAACGCCTTGATGGCTTAACCCGGTTTTTTTTTCC

**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_019113  
**Insert Size:** 1400 bp

<b>OTI Disclaimer:</b>	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.
	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>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_019113.2</a> , <a href="#">NP_061986.1</a>
<b>RefSeq Size:</b>	940 bp
<b>RefSeq ORF:</b>	630 bp
<b>Locus ID:</b>	26291
<b>UniProt ID:</b>	<a href="#">Q9NSA1</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Adult stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	This gene encodes 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. This protein is a secreted endocrine factor that functions as a major metabolic regulator. The encoded protein stimulates the uptake of glucose in adipose tissue. [provided by RefSeq, Mar 2016]