

## Product datasheet for **SC110159**

### Follistatin (FST) (NM\_013409) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Follistatin (FST) (NM_013409) Human Untagged Clone
Tag:	Tag Free
Symbol:	Follistatin
Synonyms:	FS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013409, the custom clone sequence may differ by one or more nucleotides

```
ATGGTCCGCGCAGGACCCAGCCGGGTGGGCTTTGCCTCCTGCTGCTGCTGCTGCTGCCAGTTCATGGAGG
ACCGCAGTGCCCAGGCTGGGAAGTCTGGCTCCGTC AAGCGAAGAACGGCCGCTGCCAGGTCTGTACAA
GACCGAAGTGAAGGAGGAGTCTGCAGCACCCGGCGCTGAGCACCTCGTGGACCGAGGAGGACGTG
AATGACAACACACTCTTCAAGTGGATGATTTTCAACGGGGCGCCCCAACTGCATCCCCTGTAAGAAA
CGTGTGAGAACGTGGACTGTGGACCTGGGAAAAAATGCCGAATGAACAAGAAGAACAAACCCGCTGCGT
CTGCGCCCCGGATTGTTCAACATCACCTGGAAGGGTCCAGTCTGCGGGCTGGATGGGAAAACCTACCGC
AATGAATGTGCACTCCTAAAGGCAAGATGTAAGAGCAGCCAGAAGTGGAAAGTCCAGTACCAAGGCAGAT
GTAAAAAGACTTGTCCGGATGTTTTCTGTCCAGGCAGCTCCACATGTGTGGTGGACCAGACCAATAATGC
CTACTGTGTGACCTGTAATCGGATTTGCCAGAGCCTGCTTCTCTGAGCAATATCTCTGTGGGAATGAT
GGAGTCACCTACTCCAGTGCCTGCCACCTGAGAAAGGCTACCTGCCTGCTGGGCAGATCTATTGGATTAG
CCTATGAGGGAAAGTGTATCAAAGCAAAGTCTGTGAAGATATCCAGTGCAGTGGTGGGAAAAAATGTTT
ATGGGATTTCAAGGTTGGGAGAGGCCGGTGTCCCTCTGTGATGAGCTGTGCCCTGACAGTAAGTCGGAT
GAGCCTGTCTGTGCCAGTGACAATGCCACTTATGCCAGCAGTGTGCCATGAAGGAAGCTGCCTGCTCCT
CAGGTGTGCTACTGGAAGTAAAGCACTCCGGATCTTGAACCTCCATTTCGGAAGACACCGAGGAAGAGGA
GGAAGATGAAGACCAGGACTACAGCTTTCCTATATCTTCTATTCTAGAGTGGTAA
```



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013409 unedited  
 GCCCGCCGCTTCGGGAANTGTAACCGATACACTATAGGCGGCGCGGATTCCGGCAGGAG  
 CCCCCGTCTAGCTTTAAAGCGCGGCTGCGCCCGGCTTCTGACGTCCATTGAATCGCGCGG  
 GCGGCCGCGGCGAGCGCGGGGCTGCGCCGGGATCGTGCGCCCTCCGCGCTGGCCTCT  
 GCGACGCGCGCGCTCGCCGAGCACCCGCGCCGCGCCGGCTCCCCGCGCCGCTGCGC  
 TCCTCGCCCCGCGCTGCCCCAGGATGGTCCGCGGAGGACACCAGCCGGGTGGGCTTTG  
 CCTCCTGCTGCTGCTGCTGCTGCCAGTTCATGGAGGACCGCAGTGCCAGGCTGGAACTG  
 CTGGTCCGTCAAGCGAAGAACGCGCCGCTGCCAGGTCTGTACAAGACCGAACTGAGCAA  
 GGAGGAGTGCTGCAGCACCGCCGGCTGAGCACCTCGTGGACCGAGGAGGACGTGAATGA  
 CAACACACTCTTCAAGTGGATGATTTTTCAACGGGGGCGCCCCAACTGCATCCCCGTAA  
 AGAAACGTGTGAGAACGTGGACTGTGGACCTGGGAAAAATGCCGAATGAACAAGAAGAA  
 CAAACCCCGCTGCGTCTGCGCCCCGATTGTTCCAACATCACCTGGAAGGGTCCAGTCTG  
 CGGGCTGGATGGGAAAACCTACCGCAATGAATGTGCACTCCTAAAGGCAAGATGTAAGA  
 GCAGCCAGAACTGGAAGTCCAGTACCAAGGCAGATGTA AAAAGACTTGTGGGATGTTTT  
 CTGTCCAGGCAGTCCACATGTGTGGTGGACCAGACCAATAGTGCCTACTGTGTGNACCT  
 GTATCGGATNTGCCAGAGCCTGCTTNCCTGAGCATATCTCTGTGGGATGAAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013409 unedited  
 TCCCCAATTTACTGTGNACCGCCCGTATACTANGATCGNATTTTTTTTTTTTTTTTTTTT  
 TTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCACAAAGGCTATGTCAACACTGGAACACT  
 TATAGAGAGTTTACCCTCTAGAATAAAAGATATAGGGAAAGACTGTAGTCTGGTCTTC  
 ATCTTCTCCTCTTCTCGGGTCTTCCGAAATGGAGTTGCAAGATCCGGAGTGCCTTAC  
 TTCCAGTAGCACACCTGAGGAGCAGGCTTCTTTCATGGGACTCGTGGCATAAGT  
 GGCATTGTCACTGGCACAGACAGGCTCATCCGACTTACTGTCAGGGCACAGCTCATCACA  
 GAGGGAACACCGCCTCTCCCAACCTTGAATCCATAAAACATTTTTTCCACCAGTGCA  
 CTGGATATCTTACAGGACTTTGCTTTGATACACTTTCCCTCATAGGCTAATCCAATAGA  
 TCTGCCAGCAGGAGGAGTGCCTTTCTCAGGTGGCAGGACTGGAGTAGGTGACTCCATC  
 ATTCCACAAAGATATTGCTCAAAGGAAGCAGGCTCTGGGCAAATCCGATTACCGGTCAC  
 ACAGTAGGCATTATTGGTCTGGTCCACCACACATGTGGAGCTGCCTGGACAGAAAAATCC  
 CGACAAGTCTTTTTACATCTGCCTTGGTACTGGACTTCCAGTCTGGCTGCTCTTTACAT  
 CTTGCCTTTAGGATGGACATTATTGGGGGAGGTTTTCCCATCCAGCCCGCAAACCTGGAC  
 CCTTCCAAGGGATGGTGAACAATCCGGGGCGCAAAACCACCGGGGTTGTTCTCTTTGG  
 TACATCCGGCATTTTTTCCAGTCCC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_013409

**Insert Size:**

1400 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](mailto: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](#)

<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_013409.1, NP_037541.1</u>
<b>RefSeq Size:</b>	1122 bp
<b>RefSeq ORF:</b>	1035 bp
<b>Locus ID:</b>	10468
<b>UniProt ID:</b>	<u>P19883</u>
<b>Cytogenetics:</b>	5q11.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	TGF-beta signaling pathway
<b>Gene Summary:</b>	<p>Follistatin is a single-chain gonadal protein that specifically inhibits follicle-stimulating hormone release. The single FST gene encodes two isoforms, FST317 and FST344 containing 317 and 344 amino acids respectively, resulting from alternative splicing of the precursor mRNA. In a study in which 37 candidate genes were tested for linkage and association with polycystic ovary syndrome (PCOS) or hyperandrogenemia in 150 families, evidence was found for linkage between PCOS and follistatin. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (FST344) encodes the longer isoform (FST344).</p>