

Product datasheet for **SC123768**

Follistatin (FST) (BC004107) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Follistatin (FST) (BC004107) Human Untagged Clone
Tag: Tag Free
Symbol: Follistatin
Synonyms: follistatin; follistatin isoform FST317; FS
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC004107 edited
 CCCCCGTCTAGATTTAAAGCGCGGCTGCGCCCGGCTTCTGACGTCCATTGAATCGCGCGG
 GCGGCCGCGCGGAGCGCGGGGCTGCGCCGGGATCGCTGCGCCCTCCGCGCTGGCTCT
 GCGACGCGCGCCGCTCGCCCGAGCCACCCGCGCGCGCGGCTCCCGCGCCGCTGCGC
 TCCTCGCCCCGCGCTGCCCCAGGATGGTCCGCGGAGGCACCAAGCCGGTGGGCTTTG
 CCTCTGCTGCTGCTGCTGCCAGTTCATGGAGGACCGAGTGCCAGGCTGGAACTG
 CTGGCTCCGTC AAGCAAGAACGCGCTGCCAGTCTGTACAAGACCGAACTGAGCAA
 GGAGGAGTGTGCAGCACCGCCGGCTGAGCACCTCGTGGACCGAGGAGGACGTGAATGA
 CAACACACTCTTCAAGTGGATGATTTTCAACGGGGCGCCCCAACTGCATCCCCTGTAA
 AGAAACGTGTGAGAACGTGGACTGTGGACCTGGGAAAAAATGCCGAATGAACAAGAAGAA
 CAAACCCCGCTGCGTCTGCGCCCGGATTGTTCCAACATCACCTGGAAGGTCCAGTCTG
 CGGGCTGGATGGGAAAACCTACCGCAATGAATGTGCACTCTAAAGGCAAGATGTAAGA
 GCAGCCAGAACTGGAAGTCCAGTACCAAGGCAGATGTAAAAAGACTTGTGCGGGATGTTTT
 CTGTCCAGGCAGCTCCACATGTGTGGTGGACCAGACCAATAATGCCTACTGTGTGACCTG
 TAATCGGATTTGCCAGAGCCTGCTTCTCTGAGCAATATCTCTGTGGGAATGATGGAGT
 CACCTACTCCAGTGCCTGCCACCTGAGAAAGGCTACCTGCCTGCTGGGCAGATCTATTGG
 ATTAGCCTATGAGGGAAAGTGTATCAAAGCAAAGTCTGTGAAGATATCCAGTGCCTGG
 TGGGAAAAAATGTTTATGGGATTTCAAGTTGGGAGAGGCCGGTGTCCCTCTGTGATGA
 GCTGTGCCCTGACAGTAAGTCGGATGAGCCTGTCTGTGCCAGTGAACAATGCCACTATGC
 CAGCGAGTGTGCCATGAAGGAAGCTGCCTGCTCCTCAGGTGTGCTACTGGAAGTAAAGCA
 CTCCGGATCTTGAACCTCCATTTTCGGAAGACACCGAGGAAGAGGAGGAAGATGAAGACCA
 GGACTACAGCTTTCCTATATCTTCTATTCTAGAGTGGTAAACTCTCTATAAGTGTTCAGT
 GTTGACATAGCCTTTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAA
 AAAAAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC004107 unedited</p> <pre>CCGGGTAACCGTGGTNTAGTAAACCGNACTCACTGTNAGGNCGTGCCGCGNAATTCGG CACGAGGCCCCCGTCTTGATTTAAAGCGCGGCTGCGCCCGGCTTCTGACGTCCATTGAAT CGCGGGGGCGGACGGCGGGCAGCGCGGGGCTGCGCCGGATCGTGCGCCCTCCGCCGCT GGCCTCTGCGACGCGCCGCTCGCCCGAGCCACCCGCCGCGTCCCGGCTCCCCCGCC GCTGCGCTCCTCGCCCCGCGCTGCCCCAGGATGGTCCGCGCGAGGCACCAGCCGGTG GGCTTTGCCTCCTGCTGCTGCTGCTCTGCCAGTTTATGGAGGACCGCAGTGCCCGGCTG GGAAGTGTGGCTCCGCTCAAGCGAAGAACGGCCGCTGCCAGGTCCTGTACAAGACCGAAC TGAGCAAGGAGGAGTGCTGCAGCACCGCCGGCTGAGCACCTCGTGGACCGAGGAGGACG TGAATGACAACACACTCTTCAAGTGGATGATTTTCAACGGGGGCGCCCCAACTGCATCC CCTGTAAAGAAACGTGTGAGAACGTGGACTGTGGACCTGGGAAAAAATGCCGAATGAACA AGAAGAACAACCCCGCTGCGTCTGCGCCCGGATTGTTCCAACATCACCTGGAAGGGTC CAGTCTGCGGGTGGATGGGAAAACCTACCGCAATGAATGTGCACTCCTAAAGGCGAGAT GTAAGAGCAGCCAGGACTGGAAGTCCAGTACCATAGCAGATGTAAAAAGACTTGTGGG ATGTTTTCTGTCCAGGCAGCTCCACATGTGTGGTGGACCAGCAATAATGCCTACTGTG TGACCCTGTATCGGATGTGCCAGAGCCTGCTTGTCTGAGCATATCTCTGTGGGATGAT GCAGTCACTACTGCAGTGCCTGCCACCTGGN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC004107 unedited</p> <pre>TCCCCAAATTACTGTGNACCGCGCCGCTATACTANGATCGNGTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCACAAGGCTATGTCAACACTGGAACACT TATAGAGAGTTTACCCTCTTAGAATAGAAGAATAGGGAAAGCTGTAGTCTGGTCTTCA TCTTCTCCTCTTCTCGGGTCTTCCGAAATGGAGTTGCAAGATCCGGAGTGCTTACT TCCAGTAGCACACCTGAGGAGCAGGCAGCTTCTTCATGGGACACTCGCTGGCATAAAGTG GCATTGTCACTGGCACAACAGGCTCATCCGACTTACTGTGAGGGCACAGCTCATCACAG AGGGAACACCGGCCTCTCCCAACCTTGAATCCCATAAACATTTTTTCCCACAGTGAC TGGATATCTTACAGGACTTTGCTTTGATACACTTTCCCTCATAGGCTAATCCAATAGAT CTGCCCAGCAGGCAGGTAGCCTTTCTCAGGTGGCAGGCACTGGAGTAGGTGACTCCATCA TTCCCACAGAGATATTGCTCAAAGGAAGCAGGCTCTGGGCAAATCCGATTACAGGTCACA CAGTAGGCATTATTGGTCTGGTCCACCACACATGTGGAGCTGCCTGGACAGAAAAATCCC GACAAGTCTTTTTACATCTGCCTTGGTACTGGACTTCCAGTTTTTGGCTGCTCTTTACATC TTGCCTTTTAGAGTGCACATTCATTGCGGGAGGTTTTCCCATCCAGCCGCAAACCTGGAC CCTTCCAGTGATTTGGGACAATCCGGGGCGCACACCCAAACGGAGTTGGTCTCTTGGT CAATCCGGCATTTTTTCCAGTGACAATC</pre>
Restriction Sites:	Please inquire
ACCN:	BC004107
Insert Size:	1335 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:

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: [BC004107.2](#), [AAH04107.1](#)

RefSeq Size: 1326 bp

Locus ID: 10468

Cytogenetics: 5q11.2

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

Gene Summary: 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]