

Product datasheet for RC215777

Follistatin (FST) (NM_006350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Follistatin (FST) (NM_006350) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Follistatin
Synonyms:	FS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215777 representing NM_006350 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCGCGGAGGCCACCGCCGGTGGGCTTTGCCTCCTGCTGCTGCTGCTGCTGCCAGTTCATGGAGG
ACCGCAGTGCCAGGCTGGGAAGTGGCTCCGTCAGCGAAGAACGGCCGCTGCCAGGTCCTGTACAA
GACCGAAGTGAAGGAGGAGTGTGCAGCACCGCCGGCTGAGCACCTCGTGGACCGAGGAGGACGTG
AATGACAACACACTCTTCAAGTGGATGATTTTCAACGGGGCGCCCAACTGCATCCCCTGTAAGAAA
CGTGTGAGAACGTGGACTGTGGACCTGGGAAAAATGCCGAATGAACAAGAACAACCCCGCTGCGT
CTGCGCCCGGATTGTTCCAACATCACCTGGAAGGGTCCAGTCTGCGGGCTGGATGGGAAAACCTACCGC
AATGAATGTGCACTCCTAAAGGCAAGATGTAAAGAGCAGCCAGAAGTGGAGTCCAGTACCAAGGCAGAT
GTAAAAAGACTTGTGGGATGTTTTCTGTCCAGGCAGCTCCACATGTGTGGTGGACCAGACCAATAATGC
CTACTGTGTGACCTGTAATCGGATTTGCCAGAGCCTGCTTCTCTGAGCAATATCTCTGTGGGAATGAT
GGAGTCACCTACTCCAGTGCCTGCCACCTGAGAAAAGGCTACCTGCCTGCTGGGCAGATCTATTGGATTAG
CCTATGAGGAAAGTGTATCAAAGCAAAGTCTGTGAAGATATCCAGTGCAGTGGTGGGAAAAATGTTT
ATGGGATTTCAAGTTGGGAGAGGCCGGTGTCCCTCTGTGATGAGCTGTGCCCTGACAGTAAGTCGGAT
GAGCCTGTCTGTCCAGTGACAATGCCACTTATGCCAGCGAGTGTCCATGAAGGAAGCTGCCTGCTCCT
CAGGTGTGCTACTGGAAGTAAAGCACTCCGGATCTTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215777 representing NM_006350
Red=Cloning site Green=Tags(s)

MVRARHQPGGLCLLLLLLQCFMEDRSAQAGNCWLRQAKNGRCQVLYKTELSKEECSTGRLSTSWTEEDV
 NDNTLFKWMIFNGGAPNCIPCKETCENVDCGPGKRCRMNKNKPRVCAPDCSNI TWKGPVCGLDGKTYR
 NECALLKARCKEQPELEVQYQGRCKKTRDVFPCGSSTCVVDQTNNAVCVTCNRICPEPASSEQYL CGND
 GVTYSSACHLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCTGGKKCLWDFKVGGRGRCSL CDELCPDSKSD
 EPVCASDNATYASECAMKEAACSSGVLLLEVKHSGSCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6504_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006350

ORF Size: 951 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_006350.4](#)

RefSeq Size: 1386 bp

RefSeq ORF: 954 bp

Locus ID: 10468

UniProt ID: [P19883](#)

Cytogenetics: 5q11.2

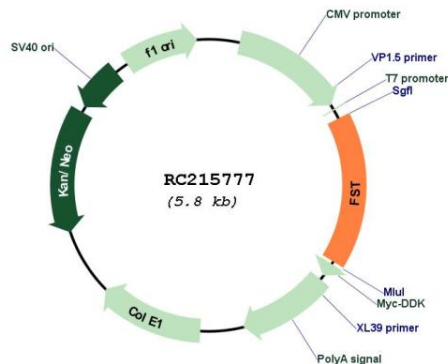
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

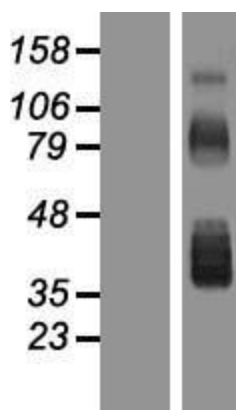
MW: 34.8 kDa

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]

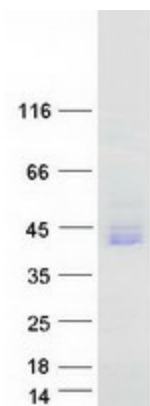
Product images:



Circular map for RC215777



Western blot validation of overexpression lysate (Cat# [LY416705]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215777 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FST protein (Cat# [TP315777]). The protein was produced from HEK293T cells transfected with FST cDNA clone (Cat# RC215777) using MegaTran 2.0 (Cat# [TT210002]).