

Product datasheet for **RG202523**

Follistatin (FST) (NM_013409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Follistatin (FST) (NM_013409) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Follistatin
Synonyms:	FS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202523 representing NM_013409 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCGCGGAGGCCACAGCCGGTGGGCTTTGCCTCCTGCTGCTGCTGCTGCTGCCAGTTCATGGAGG
ACCGCAGTGCCAGGCTGGGAAGTGTGGCTCCGTCAAGCGAAGAACGGCCGCTGCCAGGTCCTGTACAA
GACCGAAGTGAAGGAGGAGTGTGCAGCACCGCCGGCTGAGCACCTCGTGGACCGAGGAGGACGTG
AATGACAACACACTCTTCAAGTGGATGATTTTCAACGGGGCGCCCAACTGCATCCCCTGTAAGAAA
CGTGTGAGAACGTGGACTGTGGACCTGGGAAAAATGCCGAATGAACAAGAACAACCCCGCTGCGT
CTGCGCCCGGATTGTTCCAACATCACCTGGAAGGGTCCAGTCTGCGGGCTGGATGGGAAAACCTACCGC
AATGAATGTGCACTCCTAAAGGCAAGATGTAAAGAGCAGCCAGAAGTCCAGTACCAAGGCAGAT
GTAAAAAGACTTGTGGGATGTTTTCTGTCCAGGCAGCTCCACATGTGTGGTGGACCAGACCAATAATGC
CTACTGTGTGACCTGTAATCGGATTTGCCAGAGCCTGCTTCTCTGAGCAATATCTCTGTGGGAATGAT
GGAGTCACCTACTCCAGTGCCTGCCACCTGAGAAAAGGCTACCTGCCTGCTGGGCAGATCTATTGGATTAG
CCTATGAGGAAAGTGTATCAAAGCAAAGTCTGTGAAGATATCCAGTGCCTGGTGGGAAAAATGTTT
ATGGGATTTCAAGTTGGGAGAGGCCGGTGTCCCTCTGTGATGAGCTGTGCCCTGACAGTAAGTCGGAT
GAGCCTGTCTGTGCCAGTGACAATGCCACTTATGCCAGCGAGTGTCCATGAAGGAAGCTGCCTGCCTCCT
CAGGTGTGCTACTGGAAGTAAAGCACTCCGGATCTTGCAACTCCATTTGGAAGACACCGAGGAAGAGGA
GGAAGATGAAGACCAGGACTACAGCTTTCTATATCTTCTATTCTAGAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202523 representing NM_013409
 Red=Cloning site Green=Tags(s)

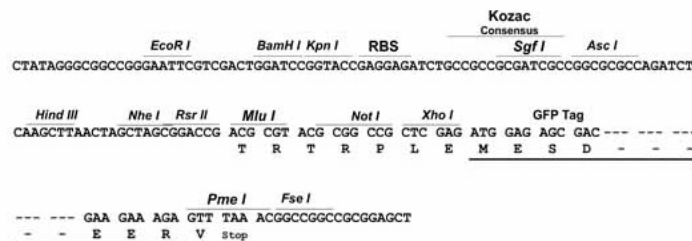
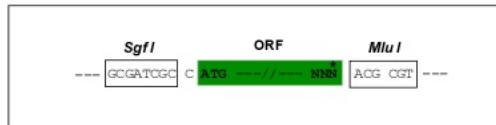
MVRARHQPGGLCLLLLLLQCFMEDRSAQAGNCWLRQAKNGRCQVLYKTELSKEECCSTGRLSTSWTEEDV
 NDNTLFKMWIFNGGAPNCIPCKETCENVDCGPGKRCRMNKNKPRVCAPDCSNIWKGPCGLDGKTYR
 NECALLKARCKEQPELEVQYQGRCKKTRDVFPCGSSTCVVDQTNNAVCVTCNRICPEPASSEQYLKCGND
 GVTYSSACHLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCTGGKKCLWDFKVGGRCSLDELCPDSKSD
 EPVCASDNATYASECAMKEAACSSGVLLLEVKHSGSCNSISEDTEEEEEEDEDQDYSFPISILEW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_013409

ORF Size: 1032 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 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](#)

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:	<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:	<u>NM_013409.3</u>
RefSeq Size:	1122 bp
RefSeq ORF:	1035 bp
Locus ID:	10468
UniProt ID:	<u>P19883</u>
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]

Product images:



Circular map for RG202523