

Product datasheet for **MG225488**

Fst (NM_008046) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fst (NM_008046) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fst
Synonyms: AL033346; D2Mgi5; FS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225488 representing NM_008046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCTGCGCCAGGCACCAGCCCGGGGCTCTGCCTCCTGCTGCTACTCTGCCAGTTCATGGAGG
 ACCGCAGCGCCAGGCTGGGAATTGCTGGCTCCGCCAAGCAAAGAACGGCCGCTGCCAGGTCCTGTATAA
 GACAGAACTGAGCAAGGAAGAGTGTTCAGCACCCGGCGCTGAGCACCTCATGGACCGAGGAGGATGTG
 AACGACAATACTCTTTCAAGTGGATGATTTTCAACGGGGCGCCCCAACTGCATCCCTTGTAAGAAA
 CGTGTGAGAACGTGGACTGCGGACCTGGGAAAAAATGTGAATGAACAAGAAGAATAAACCCCGCTGCGT
 CTGTGCCCCAGACTGTTCCAACATCACCTGGAAGGGCCAGTGTGTGGGCTGGATGGGAAAACCTACCGC
 AACGAATGTGCACTCCTCAAGGCCAGATGCAAAGAGCAGCCGGAAGTACAAGTACAGTACCAGGGCAAAT
 GTAAAAAGACTTGTAGGGATGTTTTTGTCCAGGCAGCTCCACTTGTGTGGTGGATCAGACCAATAATGC
 TACTGTGTGACCTGTAATCGGATTTGCCAGAGCCCTCCTCTTCTGAACAGTACCTTTGTGAAATGAT
 GGAGTGACTTACTCCAGCGCCTGCCACCTGAGAAAAGCCACCTGCTTGTGGCAGATCCATTGGATTAG
 CCTATGAGGAAAGTGTATCAAAGCAAAGTCTGTGAAGATATCCAGTGTGGCGGGGAAAAAATGCCT
 ATGGGATTTCAAAGTTGGCAGAGGTCGCTGCTCTCTCGCATGAGCTGTGTCTGACAGTAAGTCGGAT
 GAGCCCGTCTGTGCCAGTGACAATGCCACATACGCCAGCGAGTGTCCATGAAGGAAGCTGCCTGCTCTT
 CTGGCGTCTTCTTGAAGTGAAGCATTCTGGATCTTGAACCTCCATCTCGGAAGAAACGGAGGAAGAGGA
 GGAGGAGGAAGACCAGGACTACAGCTTTCTATCTCTTCCATTCTAGAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225488 representing NM_008046
 Red=Cloning site Green=Tags(s)

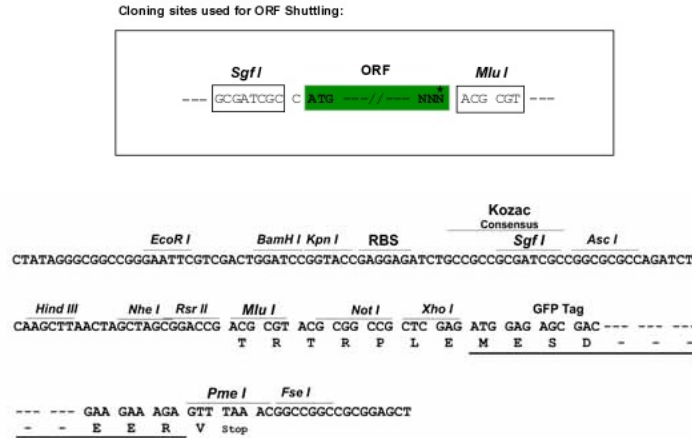
MVCARHQPGGLCLLLLLLQCFMEDRSAQAGNCWLRQAKNGRCQVLYKTELSKEECCSTGRLSTSWTEEDV
 NDNTLFKMMIFNGGAPNCIPCKETCENVDCGPGKRCRMNKNKPRVCAPDCSNITWKGPCGLDGKTYR
 NECALLKARCKEQPELEVQYQKCKKTRDVFPCGSSTCVVDQTNNAVCVTCNRICPEPSSSEQYLGGND
 GVTYSSACHLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCGGGKKLWDSKVGGRCSLDELCPDSKSD
 EPVCASDNATYASECAMKEAACSSGVLLLEVKHGSCNSISEETEEEEEEEDQDYSFPISILEW

TRTRPLE - GFP Tag - V

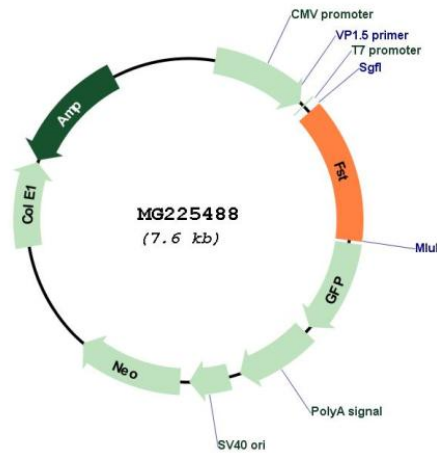
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008046

ORF Size: 1029 bp

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|-------------------------------|--|
| 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: | <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: | NM_008046.2 , NP_032072.1 |
| RefSeq Size: | 2337 bp |
| RefSeq ORF: | 1032 bp |
| Locus ID: | 14313 |
| UniProt ID: | P47931 |
| Cytogenetics: | 13 D2.2 |
| Gene Summary: | The protein encoded by this gene binds to and negatively regulates activin, as well as other members of the transforming growth factor beta family, and acts to prevent uncontrolled cellular proliferation. This protein also contains a heparin-binding sequence. It is expressed in many of the tissues in which activin is synthesized and is thought to clear activin from the circulation by attachment to the cell surface. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms, including FST315 and FST288, that differ at their C-terminus. Another isoform, FST303 is thought to be produced by proteolytic cleavage of FST315. These isoforms differ in their localization and in their ability to bind heparin. While FST315 is a circulating protein, FST288 is tissue-bound, and FST303 is gonad-specific. While deletion of all isoforms results in embryonic lethality, expression of just FST288 is sufficient for embryonic development, but the resultant mice have fertility defects. [provided by RefSeq, Aug 2014] |