

Product datasheet for MR203294

Fstl3 (NM_031380) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fstl3 (NM_031380) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fstl3
Synonyms:	E030038F23Rik; Flrg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203294 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTTCTGGGGCACTGTGGCCGCTGCTTTGGGGAGCCCTGGTCTGGACAGTGGGATCCGTGGGCGCCG
TGATGGGCTCCGAGGATTCTGTGCCCGGTGGCGTGTGCTGGCTCCAGCAGGGCAGAGAGGCCACCTGCAG
TCTGGTGTGAAGACTCGTGTGACCCGGGAGGAGTGTGCTGCTCCGGCAACATCAACACCGCTGGTCC
AACTTCACCCACCCAGGCAATAAAATCAGCCTGCTAGGGTTCCTGGGCCTCGTCCACTGCCTCCCCTGCA
AAGATTCTGCGACGGAGTGGAGTGC GGCCCGCAAGGCGTGCCGCATGCTGGGGGGCCGTCCACTG
CGAGTGGCTGCCAACTGCGAGGGGCTTCCCGCGGGCTTCCAGGTCTGCGGCTCTGATGGCGCCACCTAC
CGGGACGAATGCGAACTGCGCACCGCGCGCTGTGCGGACACCCAGACTTGCGCGTCATGTACCGCGGCC
GCTGTCAAAGTCTTGCCTCAGGTAGTGTGCCCGCTCCCAAGTTCGTCCTTGTGGATCAGACCGGCAG
CGCACACTGCGTGGTGTGTCGCGCTGCGCCCTGCCAGTACCTTCCAACCCCGGCCAAGAAGTCTGTGGC
ACAACAACGTTACCTACATCTCGTGTGTCACCTGCGCCAGGCCACTTGCTTCTGGGCCGCTCCATTG
GGGTTCCGCCACCCAGGCATCTGCACAGGTGGCCCCAAAGTACCAGCAGAGGAGGAAGAGAAGTCTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203294 protein sequence
 Red=Cloning site Green=Tags(s)

MRS GALWPLLWGALVWTVG SVGAVMGS EDSVPGGVCWLQQGREATCSLV LKTRVSREECCASGNINTAWS
 NFTHPGNKISLLGFLGLVHCLPCKDSCDGVCEGPGKACRMLGGRPHCECVNCEGLPAGFQVCGSDGATY
 RDECELRTARCRGHPDLRVMYRGR CQKSCAQVVCPRPQ SCLVDQTGSAHCVV CRAAPCPVPSPNPGQELCG
 NNNVTYISSCHLRQATCFLGRSIGVRHPGICTGGPKVPAEEEEENFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031380

ORF Size: 771 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_031380.1](#), [NM_031380.2](#), [NP_113557.1](#)

RefSeq Size: 1953 bp

RefSeq ORF: 771 bp

Locus ID: 83554

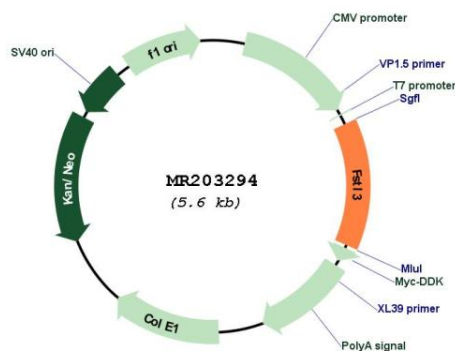
UniProt ID: [Q9EQC7](#)

Cytogenetics: 10 C1

MW: 27.3 kDa

Gene Summary: The secreted form is a binding and antagonizing protein for members of the TGF-beta family, such as activin, BMP2 and MSTN. Inhibits activin A-, activin B-, BMP2- and MSDT-induced cellular signaling; more effective on activin A than on activin B. Involved in bone formation; inhibits osteoclast differentiation. Involved in hematopoiesis; involved in differentiation of hemopoietic progenitor cells, increases hematopoietic cell adhesion to fibronectin and seems to contribute to the adhesion of hematopoietic precursor cells to the bone marrow stroma. The nuclear form is probably involved in transcriptional regulation via interaction with MLLT10 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203294