

Product datasheet for RN204911

Mstn (NM_019151) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mstn (NM_019151) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mstn
Synonyms:	Gdf8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN204911 representing NM_019151 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCAAAAACCGCAAATGTATGTTTATATTTACCTGTTTGTGCTGATTGCTGCTGGCCAGTGGATC
TAAATGAGGACAGTGAGAGAGAGGCGAATGTGGAAAAAGAGGGGCTGTGTAAATGCGTGTGCGTGGAGACA
AAACACAAGGTAAGTCCAGAAATAGAAGCCATAAAAATTCAAATCCTCAGTAACTCCGCTGGAAACAGCG
CCTAACATCAGCAAAGATGCTATAAGACAACCTTCTGCCAGAGCGCTCCACTCCGGAAGTATCGATC
AGTACGACGTCAGAGGGATGACAGCAGTGACGGCTCTTTGGAAGATGACGATTATCACGCTACCACGGA
AACAAATCATTACCATGCCTACCGAGTCTGACTTTCTAATGCAAGCGGATGGAAAGCCAAATGTTGCTTT
TTTAAATTTAGCTCTAAAATACAGTACAACAAAGTGGTAAAGGCCAGCTGTGGATATATCTGAGAGCCG
TCAAGACTCCTACAACAGTGTGTTGTGCAAAATCCTGAGACTCATCAAAACCATGAAAGACGGTACAAGGTA
TACCGGAATCCGATCTCTGAAACTTGACATGAGCCCAGGCACTGGTATTTGGCAGAGTATTGATGTGAAG
ACAGTGTGCAAAATGGCTCAAACAGCCTGAATCCAATTAGGCATTGAAATCAAAGCTTTGGATGAGA
ATGGGCATGATCTTGCTGTAACCTTCCCAGGACCAGGAGAAGATGGCTGAATCCCTTTTAGAAGTCAA
AGTAACAGACACACCCAAGAGGTCGCGGAGAGACTTTGGGCTTGACTGTGATGAACACTCCACGGAATCG
CGGTGCTGTCGCTACCCCTCACGGTCGATTTGGAAGCCTTTGGATGGGACTGGATTATTGCACCAAAA
GATATAAGGCTAATTACTGCTCTGGAGAGTGTGAATTTGTGTTCTTACAAAAATATCCGCATACTCATCT
TGTGCACCAAGCAAACCCAGAGGCTCGGCAGGCCCTTGTGCACGCCAACAAAAATGTCTCCCATTAAT
ATGCTATATTTAATGGCAAAGAACAAATAATATATGGGAAAATTCAGCCATGGTAGTAGACCGGTGTG
GGTCTCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_019151
Insert Size:	1131 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:	<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_019151.1</u> , <u>NP_062024.1</u>
RefSeq Size:	1131 bp
RefSeq ORF:	1131 bp
Locus ID:	29152
UniProt ID:	<u>O35312</u>
Cytogenetics:	9q22
Gene Summary:	This gene encodes a member of the TGF-beta (transforming growth factor-beta) family of proteins. The encoded preproprotein is proteolytically processed to generate an N-terminal propeptide and a C-terminal subunit. The C-terminal subunits form the mature homodimer, which negatively regulates skeletal muscle cell proliferation and differentiation. Mutations in this gene are associated with increased skeletal muscle mass in humans and other mammals. [provided by RefSeq, Jun 2016]