

## Product datasheet for **MC208981**

### Mstn (NM\_010834) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mstn (NM_010834) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mstn
Synonyms:	Cmpt; Gdf8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_010834, the custom clone sequence may differ by one or more nucleotides

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ATGATGCAAAAACGCAAATGTATGTTTATATTTACCTGTTCATGCTGATTGCTGCTGGCCAGTGGATC
TAAATGAGGGCAGTGAGAGAGAAGAAAATGTGGAAAAGAGGGGCTGTGTAATGCATGTGCGTGGAGACA
AAACACGAGGTAAGTCCAGAAATAGAAGCCATAAAAATTCAAATCCTCAGTAAGCTGCGCCTGGAAACAGCT
CCTAACATCAGCAAAGATGCTATAAGACAACCTTCTGCCAAGAGCGCCTCCACTCCGGGAAGTATCGATC
AGTACGACGTCCAGAGGGATGACAGCAGTATGGCTCTTTGGAAGATGACGATTATCACGCTACCACGGA
AACATCATTACCATGCCTACAGAGTCTGACTTTCTAATGCAAGCGGATGGCAAGCCAAATGTTGCTTT
TTTAAATTTAGCTCTAAAATACAGTACAACAAAGTAGTAAAAGCCCAACTGTGGATATATCTCAGACCCG
TCAAGACTCCTACAACAGTGTGGTGTGCAAAATCCTGAGACTCATCAAACCCATGAAAGACGGTACAAGGTA
TACTGGAATCCGATCTCTGAAACTTGACATGAGCCAGGCACTGGTATTTGGCAGAGTATTGATGTGAAG
ACAGTGTGCAAAATTTGGCTCAAACAGCCTGAATCCAACCTTAGGCATTGAAATCAAAGCTTTGGATGAGA
ATGGCCATGATCTTGCTGTAACCTTTCCAGGACCAGGAGAAGATGGGCTGAATCCCTTTTGAAGTCAA
GGTGACAGACACACCAAGAGGTCCCGGAGAGACTTTGGGCTTGACTGCGATGAGCACTCCACGGAATCC
CGGTGCTGCCGCTACCCCTCACGGTCGATTTTGAAGCCTTTGGATGGGACTGGATTATCGCACCCAAAA
GATATAAGGCCAATTACTGCTCAGGAGAGTGTGAATTTGTGTTTTACAAAAATATCCGCATACTCATCT
TGTGCACCAAGCAAACCCAGAGGCTCAGCAGGCCCTTGTGCACTCCGACAAAAATGTCTCCCATTAAT
ATGCTATATTTTAAATGGCAAAGAACAAATAATATATGGGAAAATTCAGCCATGGTAGTAGACCGCTGTG
GGTGCTCATG:A
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_010834
Insert Size:	1131 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC103678</a> , <a href="#">AAI03679</a>
<b>RefSeq Size:</b>	1732 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	17700
<b>UniProt ID:</b>	<a href="#">O08689</a>
<b>Cytogenetics:</b>	1 26.99 cM
<b>Gene Summary:</b>	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein negatively regulates skeletal muscle cell proliferation and differentiation. Homozygous knockout mice for this gene exhibit increased muscle mass and bone density, and reduced adiposity. [provided by RefSeq, Jul 2016]