

Product datasheet for **SC124056**

Myostatin Propeptide (MSTN) (NM_005259) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myostatin Propeptide (MSTN) (NM_005259) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myostatin Propeptide
Synonyms:	GDF8; MSLHP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124056 sequence for NM_005259 edited (data generated by NextGen Sequencing)

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ATGCAAAAACCTGCAACTCTGTGTTTATATTACCTGTTTATGCTGATTGTTGCTGGTCCA
GTGGATCTAAATGAGAACAGTGAGCAAAAAGAAAATGTGGAAAAAGAGGGGCTGTGTAAT
GCATGTACTTGGAGACAAAACACTAAATCTTCAAGAATAGAAGCCATTAAGATACAAATC
CTCAGTAAACTTCGTCTGGAAACAGCTCCTAACATCAGCAAAGATGTTATAAGACAACCTT
TTACCCAAAGCTCCTCCACTCCGGGAACTGATTGATCAGTATGATGTCCAGAGGGATGAC
AGCAGCGATGGCTCTTTGGAAGATGACGATTATCACGCTACAACGGAAACAATCATTACC
ATGCCTACAGAGTCTGATTTTCTAATGCAAGTGGATGGAAAACCCAAATGTTGCTTCTTT
AAATTTAGCTCTAAAATACAATAACAATAAAGTAGTAAAGGCCCAACTATGGATATATTTG
AGACCCGTCGAGACTCCTACAACAGTGTGTTGTGCAAACTCTGAGACTCATCAAACCTATG
AAAGACGGTACAAGGTACTGGAATCCGATCTCTGAAACTTGACATGAACCCAGGCACT
GGTATTTGGCAGAGCATTGATGTGAAGACAGTGTGCAAAATTGGCTCAAACAACCTGAA
TCCAACCTAGGCATTGAAATAAAAGCTTTAGATGAGAATGGTCATGATCTTGCTGTAACC
TTCCCAGGACCAGGAGAAGATGGGCTGAATCCGTTTTTAGAGGTCAAGGTAACAGACACA
CCAAAAAGATCCAGAAGGGATTTTGGTCTTGACTGTGATGAGCACTCAACAGAATCACGA
TGCTGTCGTTACCCTCTAACTGTGGATTTGAAGCTTTTGGATGGGATTGGATTATCGCT
CCTAAAAGATATAAGGCCAATTACTGCTCTGGAGAGTGTGAATTTGTATTTTTACAAAAA
TATCCTCATACTCATCTGGTACACCAAGCAAACCCAGAGGTTCCAGCAGGCCCTTGTGTG
ACTCCCACAAAGATGTCTCCAATTAATATGCTATATTTTAATGGCAAAGAACAAATAATA
TATGGGAAAATTCCAGCGATGGTAGTAGACCGCTGTGGGTGCTCATGA

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Clone variation with respect to NM_005259.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005259 unedited GGGCGGCCGCAAATTCGGCACGAGATTCAGTGGTGGCAAGTTGTCTCTCAGACTGTAC ATGCATTAATAATTTTGGCTTGGCATTACTCAAAGCAAAGAAAAGTAAAAGGAAGAAACA AGAACAAGAAAAAGATTATATTGATTTTAAAATCATGCAAAAAGTCAACTCTGTGTTT ATATTTACCTGTTTATGCTGATTGTTGCTGGTCCAGTGGATCTAAATGAGAACAGTGAGC AAAAAGAAAATGTGAAAAAGAGGGGCTGTGTAATGCATGACTTGGAGACAAAAACTA AATCTTCAAGAATAGAAGCCATTAAGATACAAATCCTCAGTAAACTTCGTCTGGAACAG CTCCTAACATCAGCAAAGATGTTATAAGACAACCTTTACCCAAAAGCTCCTCCACTCCGGG AACTGATTGATCAGTATGATGTCCAGAGGGATGACAGCAGCGATGGCTCTTTGGAAGATG ACGATTATCACGCTACAACGAAACCATCATTACCATGGCTTCCGAAAGTCTGATTTTCTA ATGCAAGTGGATGGAAAACCAAATGTTGCTTCTNTAAATTTAGCTCTANATAACAATAC AATAAAGTAGTAAGGCCCAACTATGGATATATTTGAGAACCGTCGAGACTCTACAACAG TGTTTGTGCANATCCTGAGACTCATCANACCTATGAAAGACGGTACAGGTATACTGGAAT CGAATCTTGAACCTGAATGAACCAGGCACTGTATTTGCAGACC
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005259 unedited AGGCACCTGGNAAGGGGTACAGGGATGCCACCCGGGATCTGTTCAGGAAACAGCTATGAC CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGATAGCATCAGTTTATT CTTCATTTAGATAATAGAGTCAATTTTTTGGTATACTTAGTAATGTTTTTGAAGTAT TAAAATAATGGAACGTTGAGATTTAAACACAATGACAGTAAACCATTGAAATTTCAAATT CACTTTTACAGCCATCATGAATCCATAAGTGAATGTTAATCATGTAAAAAATAAAAA TGATTGAATATAACCATCTAATCATTAAACATATGGAGTTTTAAGACCACTATTTAATCT GCTAATTTGCTCTGAAATATAAGTAGTTGCTTTTCTGTGATGCATGACATGTCTTTGTGC CTTAGTACTTAATTTGAAATGTCCTTAGTGTAATAATATACCAAAGTAAATAAAAAAGGA GACACTTATTTACAAAACAATATTGTATACATATTATATAAATGCATTGTTTCATTCTTT TATACAATATTGATAGAGTCGATCATTCTATTATTTACCATAAAAACTGCAGTGTTC AAAAGCAGTGTGTAATTTTANAGACAAAATACATACTCTCCAGTATGTATTTTGCATT TTGATAANACAACACCATTGACTGCCTTTAGAAAATGCATTCTTCAATTTGTTACGAATG AAGCCACCTTTGAAAATGATCTCTTCATAA
Restriction Sites:	NotI-NotI
ACCN:	NM_005259
Insert Size:	2700 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_005259.1</u> , <u>NP_005250.1</u>

RefSeq Size:	2823 bp
RefSeq ORF:	1128 bp
Locus ID:	2660
UniProt ID:	O14793
Cytogenetics:	2q32.2
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>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. Mutations in this gene are associated with increased skeletal muscle mass in humans and other mammals. [provided by RefSeq, Jul 2016]</p>