

Product datasheet for **RG210368**

Myostatin Propeptide (MSTN) (NM_005259) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Myostatin Propeptide (MSTN) (NM_005259) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Myostatin Propeptide |
| Synonyms: | GDF8; MSLHP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG210368 representing NM_005259 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAAAACGCAACTCTGTGTTTATATTTACCTGTTTATGCTGATTGTTGCTGGTCCAGTGGATCTAA
ATGAGAACAGTGAGCAAAAAGAAAATGTGGAAAAAGGGGCTGTGAATGCATGTACTTGGAGACAAAA
CACTAAATCTTCAAGAATAGAAGCCATTAAGATACAAATCCTCAGTAACTTCGTCCTGGAAACAGCTCCT
AACATCAGCAAAGATGTTATAAGACAACTTTTACCCAAAGCTCCTCCACTCCGGGAAGTATTGATCAGT
ATGATGTCCAGAGGGATGACAGCAGCGATGGCTCTTTGGAAGATGACGATTATCACGCTACAACGGAAAC
AATCATTACCATGCCACAGAGTCTGATTTTCTAATGCAAGTGGATGGAAAACCCAAATGTTGCTTCTTT
AAATTTAGCTCTAAAATACAATACAATAAAGTAGTAAAGGCCAACTATGGATATATTTGAGACCCGTCG
AGACTCCTACAACAGTGTGTTGTGCAAACTCTGAGACTCATCAAACCTATGAAAGACGGTACAAGGTATAC
TGGAAATCCGATCTCTGAAACTTGACATGAACCCAGGCACTGGTATTTGGCAGAGCATTGATGTGAAGACA
GTGTTGCAAAAATTGGCTCAAACAACCTGAATCCAACCTTAGGCATTGAAATAAAAGCTTTAGATGAGAATG
GTCATGATCTTGCTGTAACTTCCCAGGACCAGGAGAAGATGGGCTGAATCCGTTTTAGAGGTCAAGGT
AACAGACACACAAAAAGATCCAGAAGGGATTTTGGTCTTGACTGTGATGAGCACTCAACAGAATCACGA
TGCTGCTGTTACCCTCTAACTGTGGATTTTGAAGCTTTTGGATGGGATTGATTATCGCTCCTAAAAGAT
ATAAGGCCAATTACTGCTCTGGAGAGTGTGAATTTGATTTTTACAAAAATATCCTCATACTCATCTGGT
ACACCAAGCAAACCCAGAGGTTTCAAGCAGGCCCTTGTGACTCCCAAAAAGATGTCTCCAATTAATATG
CTATATTTAATGGCAAAGAACAATAATATATGGGAAAATCCAGCGATGGTAGTAGACCGCTGTGGGT
GCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210368 representing NM_005259
 Red=Cloning site Green=Tags(s)

MQKLQLCVYIYLFMLIVAGPVDLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQLSKLRLETAP
 NISKDVI RQLLPKAPPLRELIDQYDVQRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQVDGKPKCCFF
 KFSSKIQYNKVVKAQLWIYLRPVETPTTVFVQILRLIKPMKDGTRYTGIRSLKLDMNPGTGIWQSIDVKT
 VLQNWLKQPESNLGIEIKALDENGHDLAVTFPGPGEDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESR
 CCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEVFVLQKYPHTLHVQANPRGSAGPCCTPTKMSPINM
 LYFNGKEQIIYGKIPAMVVDRCGCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005259

ORF Size: 1125 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_005259.3](#)

RefSeq Size: 2823 bp

RefSeq ORF: 1128 bp

Locus ID: 2660

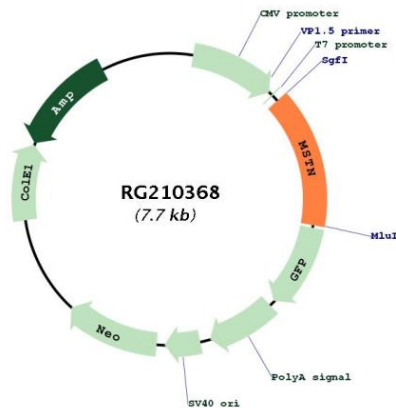
UniProt ID: [O14793](#)

Cytogenetics: 2q32.2

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: 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]

Product images:



Circular map for RG210368