*h*GDF-8/Myostatin VersaClone cDNA

Catalog Number: RDC3534

Specifications:

Gene:	*h*MSTN
Accession:	NP_005250.1
Insert size:	1140bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

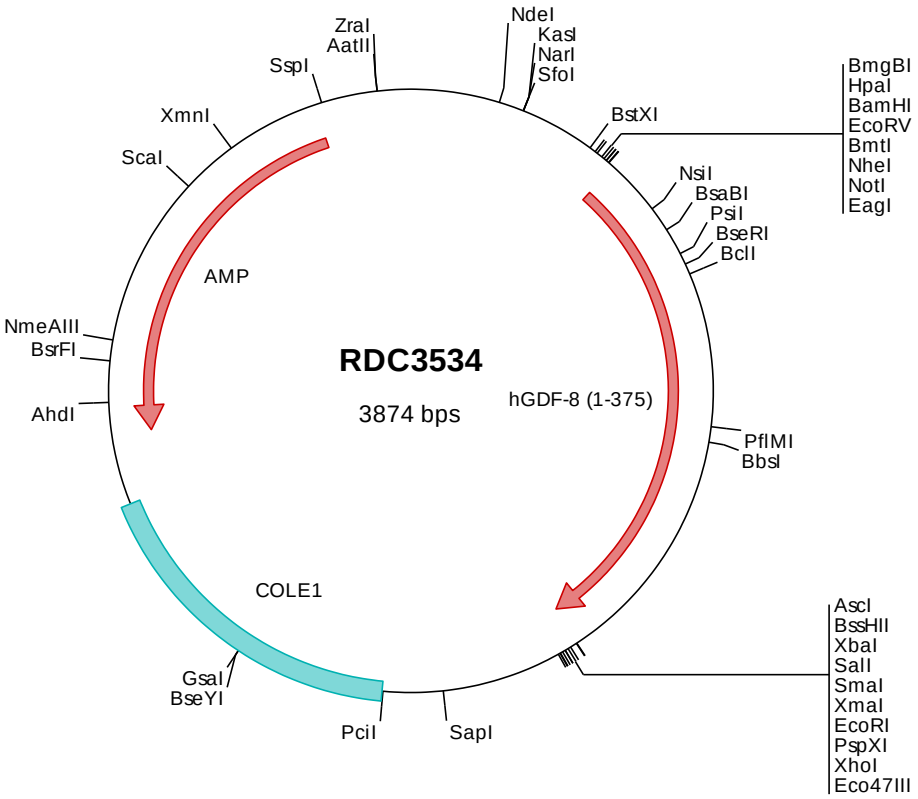
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*GDF-8/Myostatin cDNA Plasmid

MSTN myostatin [*Homo sapiens* (human)]

Also known as: GDF8; MSLHP

Summary:
GDF8 is a secreted ligand of the transforming growth factor-beta (TGF-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. GDF8 is proteolytically processed to generate each subunit of the disulfide-linked homodimer. It negatively regulates skeletal muscle cell proliferation and differentiation. Mutations in GDF8 are associated with increased skeletal muscle mass in humans and other mammals.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3534 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcaaaaac tgcaactctg tgtttatatt tacctgttta tgctgattgt
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 601  tcaagaatag aagccattaa gatacaaatc ctcagtaaac ttcgtctgga aacagctcct aacatcagca aagatgttat aagacaactt ttacccaaag
 701  ctcctccact ccgggaactg attgatcagt atgatgtcca gagggatgac agcagcgatg gctctttgga agatgacgat tatcacgcta caacggaaac
 801  aatcattacc atgcctacag agtctgattt tctaatgcaa gtggatggaa aacccaaatg ttgcttcttt aaatttagct ctaaaataca atacaataaa
 901  gtagtaaagg cccaactatg gatatatttg agacccgtcg agactcctac aacagtgttt gtgcaaatcc tgagactcat caaacctatg aaagacggta
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1501  ctatatttta atggcaaaga acaaataata tatgggaaaa ttccagcgat ggtagtagac cgctgtgggt gctcatgagg cgcgccagta tactctagag
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1701  caacatacga gccggaagca taaagtgtaa agcctggggt gcctaatgag tgagctaact cacattaatt gcgttgcgct cactgcccgc tttccagtcg
1801  ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc actgactcgc
1901  tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaatacggt tatccacaga atcaggggat aacgcaggaa agaacatgtg
2001  agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca taggctccgc cccctgacg agcatcacaa aaatcgacgc
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2601  tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcacgt
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2901  aactacgata cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagaccc acgctcaccg gctccagatt tatcagcaat aaaccagcca
3001  gccggaaggg ccgagcgcag aagtggtcct gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt tcgccagtta
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3701  gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc
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> RDC3534 Translated Insert Sequence

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 101  ssdgsleddd yhattetiit mptesdflmq vdgkpkccff kfsskiqynk vvkaqlwiyl rpvetpttvf vqilrlikpm kdgtrytgir slkldmnpgt
 201  giwqsidvkt vlqnwlkqpe snlgieikal denghdlavt fpgpgedgln pflevkvtdt pkrsrrdfgl dcdehstesr ccrypltvdf eafgwdwiia
 301  pkrykanycs gecefvflqk yphthlvhqa nprgsagpcc tptkmspinm lyfngkeqii ygkipamvvd rcgcs
```