

Product datasheet for RC231190

STIMATE-MUSTN1 (NM_001198974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	STIMATE-MUSTN1
Synonyms:	TMEM110-MUSTN1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231190 representing NM_001198974
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGGCCCCGCGGGAACGCGAGCCGGGACTGCCAGGCGGGCCGCCCTCCACAGTCGCGTCCGGGG
CGGGCCGCTGCGAGAGCGGCGCGCTCATGCACAGCTTCGGCATCTTCCTGCAGGGGCTGCTCGGCGTCGT
GGCCTTCAGCACGTTAATGCTCAAACGCTTCAGAGAACCAAGCATGAAAGACGTCCGTGGAGGATATGG
TTTTTAGACACTTCAAACAAGCCATAGGAATGCTGTTTCATCCACTTTGCAAATGTATACCTAGCAGATC
TCACTGAAGAGGACCCTTGTTCACTGTACCTCATCAACTTCCTCCTGGACGCCACTGTGGGCATGCTGCT
CATCTACGTGGGGTGCGCGCGTCAGCGTCCTGGTAGAGTGGCAGCAGTGGGAGTCCCTGCGCTTCGGC
GAATATGGAGACCCTCTGCAGTGTGGAGCCTGGGTCGGGCAGTGCCTCTTTACATCGTGATCATGATTT
TTGAAAAGTCTGTCGTCTTCATCGTCCTCCTAATACTTCAGTGGAAAAAGGTGGCCCTGTTGAATCCCAT
TGAAAACCCAGACTTGAAGCTGGCCATCGTCATGCTGATCGTCCCTTCTTTGTCAACGCTTTGATGTTT
TGGGTAGTGGACAATTTCTCATGAGAAAGGGGAAGACGAAAGCTAAGCTAGAAGAAAGGGGAGCCAACC
AGGACTCGAGGAATGGGAGCAAGGTCGCTACCGGAGGGCCGCATCCCACGAGGAGTCTGAGTCTGAGAT
CCTGATCTCAGCGGATGATGAGATGGAGGAGTCCGACGTGGAGGAGGACCTCCGAGACTGACCCCTC
AAGCCTGTGAAGAAAAAGAACGACCGCTTTGGGCTACCGCTGGTGTCTAGGAAGCCCTATCAAGAAGA
AGCGCCCCCTGTGAAGGAGGAGGACCTGAAGGGGCGCCGAGGAAACCTGACCAAGAACCAGGAAATCAA
GTCCAAGACCTACCAGGTATGCGAGAGTGTGAGCAAGCTGGCTCGGCCGCCCGTGGTGTTCAGCCGC
ACCGCACAGGTACCGAGACTGTCTTTGAGAAGCCAAAGCCGACCCACCAAGAGTGTCTTCGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC231190 representing NM_001198974

Red=Cloning site Green=Tags(s)

MQGPAGNASRGLPGPPSTVASGAGRCESGALMHSFGIFLQGLLGVAFTLMLKRFREPKHRRPWRIW
FLDTSKQAIIGMLFIHFANVYLADLTEEDPCSLYLINFLLDATVGMLLIYGVRAVSVLVEWQQWESLRF
EYGDPLQCGAWVGQCALYIVIMIFEKSVFIVLLILQWKKVALLNPIENPDLKLAIVMLIVPFFVNALMF
WVVDNFLMRKGKTKAKLEERGANQDSRNGSKVRYRRAASHEESESEILISADDEMEESDVEEDLRRLTPL
KPVKKKKHRFGLPAGAQEAPIKKRPPVKEEDLKGARGNLTKNQEIKSKTYQVMRECEQAGSAAPSVFSR
TRTGTTVFEPKAGPTKSVFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

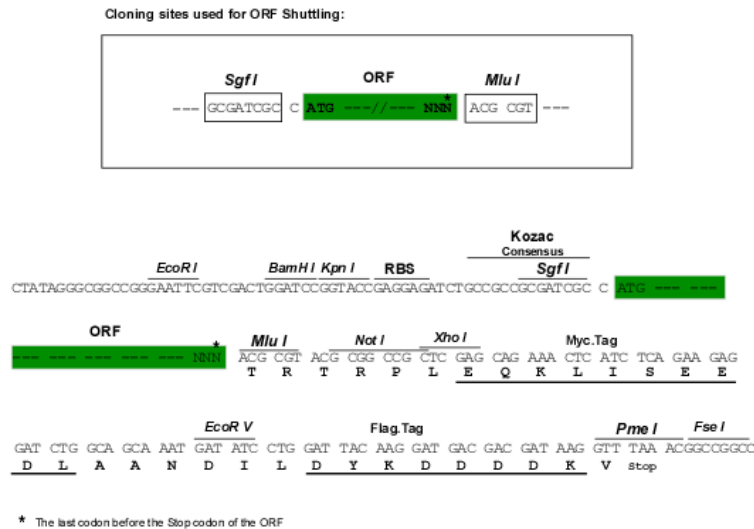
Chromatograms:

https://cdn.origene.com/chromatograms/ja1291_c02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001198974

ORF Size:

1116 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:

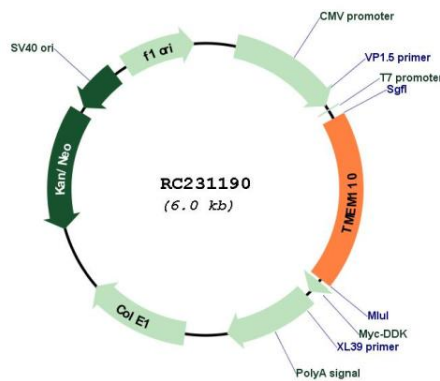
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

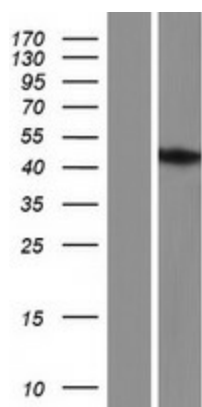
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001198974.1, NP_001185903.1</u>
RefSeq ORF:	1119 bp
Locus ID:	100526772
Cytogenetics:	3p21.1
MW:	42.1 kDa
Gene Summary:	This locus represents naturally occurring read-through transcription between the neighboring TMEM110 (transmembrane protein 110) and MUSTN1 (musculoskeletal, embryonic nuclear protein 1) genes. The read-through transcript encodes a fusion protein that shares sequence identity with each individual gene product. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RC231190



Western blot validation of overexpression lysate (Cat# [LY434189]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231190 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).