

Product datasheet for **RC225882**

SMTNL1 (NM_001105565) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SMTNL1
Synonyms:	CHASM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC225882 representing NM_001105565
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCAGAAGGAAGGAAGCTCTCTGAGGATGGGACCACCGTCTCCCAGCTGCGGACAACCCCTGAGA
 TGTCAGGAGGTGGAGCCCTGCAGAGGAGACCAAGGCACAGCTGGAAAGGCCATCAATGAGGGGCTCC
 CACTGAGTCAGGAAAGCAGGAAAGGCACCGAGGACGGCATGTGACGAGAACTCCAGGGGGAAGCA
 AATGGATTAGATGAGGTCAAAGTGAATCTCAGAGGGAGGCTGGTGGGAAAGAGGATGCTGAGGCTGAAC
 TTAAGAGGAGGATGGTGAGAAGGAAGAGACCACTGTGGTTCTCAGGAGATGACTGGCAGGAAAGAAGA
 GACCAATCTGAACCCAAAGAGGCTGAGGAAAAGGAGAGCAGCTGGCCTCTGAGAAGCAGAAGGCTGAG
 GAGAAAGAGGCCAAACCTGAATCTGGGCAGAAAGCCGATGCCAATGACAGAGACAAGCCTGAACCTAAGG
 CAACAGTTGAGGAGGAGGACGCCAAGACAGCCTCTCAGGAGGAGACAGGCCAGAGGAAAGAGTGCAGCAC
 TGAACCAAGGAGAAGGCTACTGATGAAGAGGCCAAGGCTGAATCGCAGAAGGCTGTTGTGGAGGATGAG
 GCTAAGGCTGAACCAAGGAGCCGATGGGAAAGAGGAGGCCAAACATGGTGCAAAAGAGGAGGCTGATG
 CAAAAGAGGAGGCGGAGGATGCAGAGGAGGAGAGCCAGGCAAGTCCAGCGAAGAGCAGGAGCAGGACGT
 GGAAAAGAGCCAGAGGAGGGGCGAGGGTGATTCCCAGCTCCCAGAGGAGTGGCCTGAGAGCCCCACT
 GGGGAGGGGCACAACCTCAGCACAGATGGGCTGGTCCAGACTGTGTAGCTTCCGGACAGACCAAGTCTT
 CAGCCAGTGAGTCTTACCCAGCGAGCTGCCCAAGAGTCCCTTCTGAGTCCCTTCTCAGGGGAGAAGAA
 GGAGAAGGCACAGAGCGAGGGTATCAGCCCCTGCTCGGCCCGGGGGCCCCGGGCACAGAACCACAA
 GCCATCGTGGACAAGTTTGGCGGGGCGAGCTTCCGGCCACAGGCTTGTTCGCAACACTAAGGCAGCCG
 GGGCAGCCATTGGTGGTGTCAAGAATGCTCTTGGAGTGGTGCCAGCCATGACAAAAAATACGAGCA
 TGTGGACATCCAGAACTTCTCTCCAGCTGGAGCAGTGGATGGCCTTCTGTGCCCTCATCCACAAGTTC
 TTCCCTGACGCCTTTGACTACGACAGCTGGATCCCGCAAAGCGCCGGCACAATTCACCCTGGCCTTCT
 CCACAGCAGAGAACTGGCTGACTGTGCTCAGCTGCTGGACGTGGATGACATGGTGCGGTTGGCTGTGCC
 CGACTCCAAGTGGCTTACACATACATCCAGGAAGTGTACCGCAGCCTTGTGCAGAAAGGACTGGTGAAG
 ACCAAGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225882 representing NM_001105565
 Red=Cloning site Green=Tags(s)

MEQKEGKLSGDGTTVSPAADNPEMSGGAPAEETKGTAGKAINEGPPTESGKQEKAPAEDGMSAELQGEA
 NGLDEVKVESQREAGGKEDAEELKKEDGEKEETTGVSGQEMTGRKEETKSEPKEAEEKESTLASEKQKAE
 EKEAKPESGQKADANDRKPEPKATVEEEDAKTASQEETGQRKECSTEPKEKATDEEAKAESQKAVVEDE
 AKAEPKEPDGKEEAKHGAKEEADAKEEAEDAEAEPPGSPSEEQEQDVEKEPEGGAGVIPSSPEEWPEST
 GEGHNLSTDGLGPDVASGQTSPPASESSPDPVQSPPESSGEGKEKAPERRVSAPARPRGPRAQNRK
 AIVDKFGGAASGPTALFRNTKAAGAAIGGVKNMLLEWCRAMTKKYEHVDIQNFSSSWSSGMAFCALIHKF
 FPDFDYAELDPAKRRHNFTLAFSTAELKADCAQLLDVDDMVRLAVPDSKCVYTYIQELYRSLVQKGLVK
 TKKK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001105565

ORF Size: 1482 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: [NM_001105565.2](#)

RefSeq ORF: 1485 bp

Locus ID: 219537

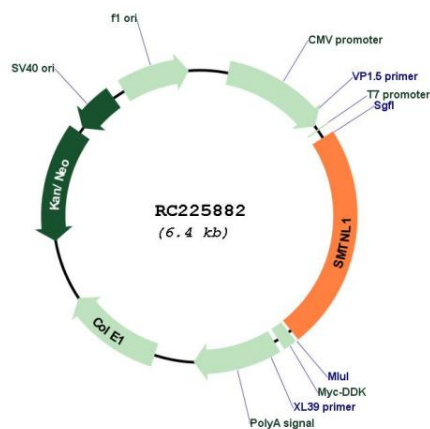
UniProt ID: [A8MU46](#)

Cytogenetics: 11q12.1

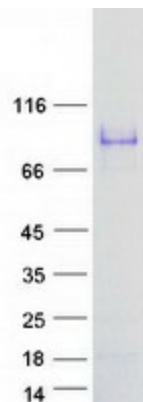
MW: 52.99 kDa

Gene Summary: The protein encoded by this gene is involved in the contraction of both striated and smooth muscle. During pregnancy, the encoded protein interacts with progesterone receptor to attenuate the expression of contractile and metabolic proteins. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC225882



Coomassie blue staining of purified SMTNL1 protein (Cat# [TP325882]). The protein was produced from HEK293T cells transfected with SMTNL1 cDNA clone (Cat# RC225882) using MegaTran 2.0 (Cat# [TT210002]).