

Product datasheet for RC225778

SMTNL2 (NM_001114974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SMTNL2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225778 representing NM_001114974
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCGGCCCCGACGCCAGGAGGCGCGCACTGTGCGCGAGGCGCTGGGCGCTACGAGGCGGCGC
TGGAGGGTGGGTGCGCGCGCTGCACGAGGACATGCGGGGGCTGCAGCGCGCGTGGAGCGGCGAGTGGC
AGAGGCGATGCGCCTGGCCGGCCCCCTGGCGCGCACGGTGGCCGACCTGCAGCGGGACAACGAGCGGCTG
CAGGCGCAGCTCGAGCGCTGACGCGCCAGGTGGAGGCGCTGGGCTTGGCCAGCGGGATGTCCCCGGTGC
CCGGCACTCCCGGACGCGCCAGCCCCCGCCGCGCCGGGGTCCCGACCGCGCGCCCGCCTGGGCGAG
CGCACGCTTCGCCAGCCACGCCACCTTCTCGTGTCCGGCCGCGCCAGAGTTTGGATCACGATGAGGCC
AGTGAGTCGGAGATGAGAAAGACCTCAAACCTCCTGCATCATGAAAATGGGCACGAGCCGGGGGAGGTC
CAGGGATGGACCCCTGAGATTGCCAAAACCTCTCAGCACCAGATCCCCCAGGCCTCGTCTGTGAG
CCTCTCCTTGGGCTGCCCCACGAGCAGTCACGGCCATCACCGAGTCTTGACAGGTTCTTGGGGAG
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TCATCAGCCCTGGACTCCAGTCTAGCGAGAAGAATTCCTCTTTCAGTGGTCTGTGCCAAGCTCTGG
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AGCAGCATCAAGCAGATCCTGTGAGTGGTGCCGAGCAAGACGCTGGGTACAGCACGTGGACCTGC
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CTTTGACTACAATCCCTGAGCCCCACGAGGCGAGAAGAACTTCGAGTGGCTTTACCATGGCCGAG
AATCTGGCCAATGTGAGCGCCTCATCGAAGTGGAGGACATGATGGTGTGGGCGCAAGCCGACCCCA
TGTGTGTCTTACCTACGTCCAGTCTGTACAACCACTGCGTCGCTTCGAG

ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGTTTAA



Protein Sequence: >RC225778 representing NM_001114974
Red=Cloning site Green=Tags(s)

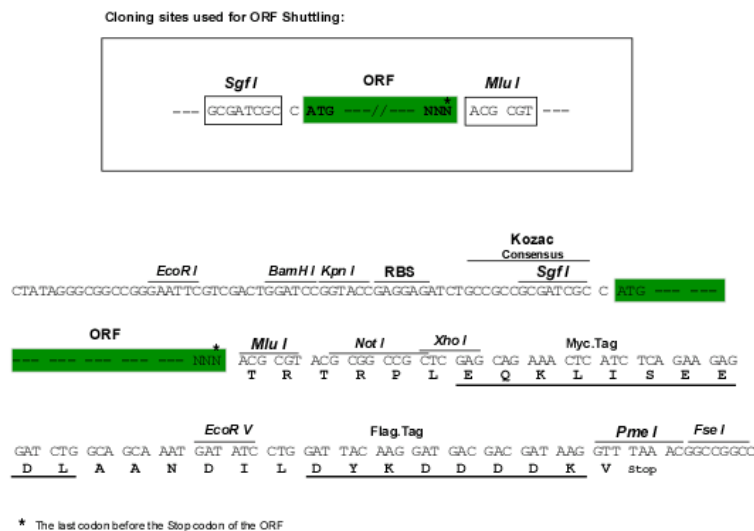
MEPAPDAQEARTVREALGRYEAALEGAVRALHEDMRGLQRGVERRVAEAMRLAGPLARTVADLQRDNQRL
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SESEMRKTSNSCIMENGHQPGAGPGDGPPEIAQNF SAPDPPRPVLSLRPLHQPVTAITRVSDRFSGE
TSAALSPMSAATLGLNPSSEVITPWTSPSEKNSSFTWSVPSSGYGAVTASKHSNPPLVTPPQSPV
SPQPPAITQVHRQGERRRELVRSQLPRTSEAQARKALFEKWEQETAAGKGKGARARLKRSQSFVASA
SSIKQILLEWCRSKTLGYQHVDLQNFSSWSDDGMAFCALVHSFFDADFYNLSPTQRQKNFELAFMAE
NLANCERLIEVEDMMVMGRKPDPMCFTYVQSLYNHLRFE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001114974

ORF Size: 1383 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_001114974.2](#)

RefSeq Size: 2285 bp

RefSeq ORF: 1386 bp

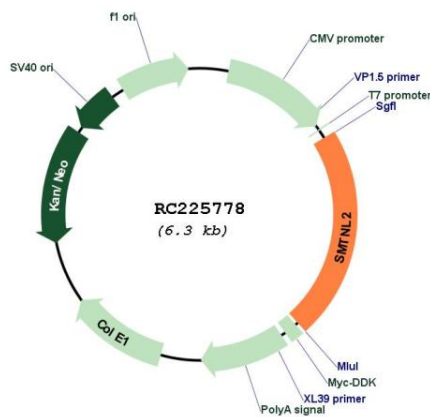
Locus ID: 342527

UniProt ID: [Q2TAL5](#)

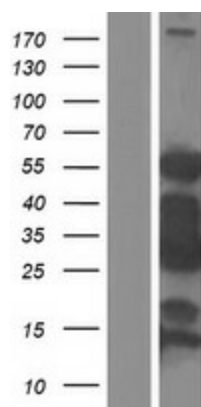
Cytogenetics: 17p13.2

MW: 50.2 kDa

Product images:



Circular map for RC225778



Western blot validation of overexpression lysate (Cat# [LY426513]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225778 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).