

Product datasheet for RC206129

SUNC1 (SUN3) (NM_152782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SUNC1
Synonyms:	SUNC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206129 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGGAAAAACAAAGGCAAGAAGGGCTGCCATGTTTTTTAGACGTTGCTCTGAAGACGCCAGCGGTA
 GCGCCAGTGGCAATGCTTTGTTATCAGAGGACGAAAATCCTGATGCGAATGGGTAATCGATCATGGAA
 GATTATTCTAAGTACAATGCTTACACTGACTTTTCTTCTGTAGGACTCCTAAATCATCAGTGGCTTAAA
 GAAACAGATGTTCTCAGAAATCCAGACAATTATATGCCATAATTGCAGAATATGGTTCAAGGCTTTATA
 AATATCAGGCCAGACTTCGTATGCCTAAAGAGCAACTGGAACTTTAAAGAAGGAAAGCCAGAATCTGGA
 AAACAATTTTCGTCAAATTTCTATTTTGGTCGAACAAATAGATGTCCTGAAGGCATTGCTAAGAGATATG
 AAGGATGGTATGGACAATAATCACAACCTGGAACACCCATGGAGACCCGTGGAGGACCCGGACCACACAG
 AGGAAGTGTCAAACCTGGTCAATTATGTAATTTAAAAAGTTGAGAGAAGACCAAGTCGAGATGGCTGATTA
 TGCCCTGAAGTCGGCCGGAGCCTCCATCATTGAAGCTGGGACCTCAGAAAGTTATAAAAAATAAAAGCA
 AAATTGTAAGTGGCATGGGATAGGTTTCTAAATCATGAAATGCCTCCAGATATTATTCTCAGCCGGATG
 TCTACCCTGGAAGTGTGGGCTTTTCCAGGTTCCAGGGTCATACCCTAATCAAGCTTGCTACAAAGAT
 CATACCAACTGCTGTTACCATGGAGCACATCTCAGAGAAGGTGTCTCCGTCAGGAAACATCTCCAGTGCA
 CCAAGGAATTTTCTGTCTATGGCATCACAAAAAATGTGAAGGAGAAGAAATTTTCTAGGTCAAGTTTA
 TATATAACAAAACAGGAACACCGTTCAAACATTTGAAGTCCAGCATGCAGTTTCTGAATATTTATTATG
 TGTGAACTTAATATCTTAGCAACTGGGGACACCCGAAGTATACTTGTTTATATCGATTCAAGGTCCAT
 GGCACACCAGGCAAGCACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RC206129 protein sequence
 Red=Cloning site Green=Tags(s)

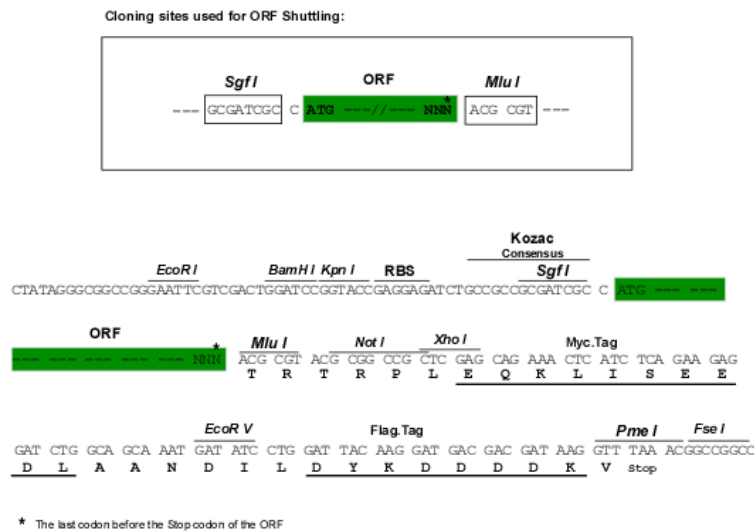
MSGKTKARRAAMFFRRCSEDASGSASGNALLSEDENPDANGVTRSWKIILSTMLTLTFLLVGLLNHWLKE
 ETDVPQKSRQLYAIIEYGSRLYKYQARLRMPKEQLELLKKESQNLNNFRQILFLVEQIDVLKALLRDM
 KDGMNHNHWNTHGDPVEDPDHTEEVSNLVNYVLKKLREDQVEMADYALKSAGASIEAGTSESYKNNKA
 KLYWHGIGFLNHEMPDIIILQPDVYPGKCWAFPGSQGHTLIKLATKIIPAVTMEHISEKVSPSGNISSA
 PKEFSVYGITKKCEGEEIFLGQFIYNKTGTTVQTFELQHAYSEYLLCVKLNIFSNWGHPKYTCLYRFRVH
 GTPGKHI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6318_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152782

ORF Size: 1071 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_152782.3](#), [NP_689995.3](#)

RefSeq Size: 1368 bp

RefSeq ORF: 1074 bp

Locus ID: 256979

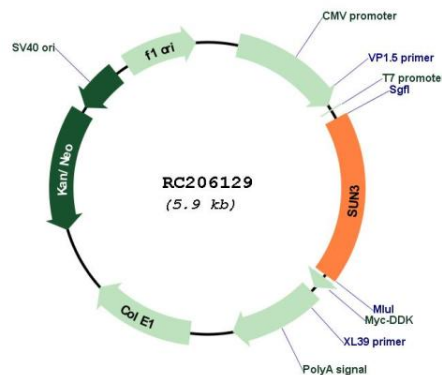
UniProt ID: [Q8TAQ9](#)

Cytogenetics: 7p12.3

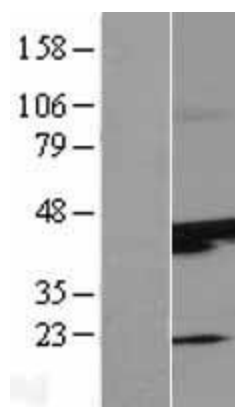
MW: 40.5 kDa

Gene Summary: As a probable component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. May be involved in nuclear remodeling during sperm head formation in spermatogenesis. A probable SUN3:SYNE1 LINC complex may tether spermatid nuclei to posterior cytoskeletal structures such as the manchette.[UniProtKB/Swiss-Prot Function]

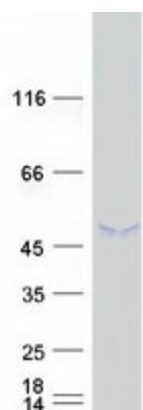
Product images:



Circular map for RC206129



Western blot validation of overexpression lysate (Cat# [LY422237]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC215649] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SUN3 protein (Cat# [TP306129]). The protein was produced from HEK293T cells transfected with SUN3 cDNA clone (Cat# RC206129) using MegaTran 2.0 (Cat# [TT210002]).