

Product datasheet for MR229229

Sun3 (NM_001290519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sun3 (NM_001290519) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sun3
Synonyms:	Sunc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229229 representing NM_001290519 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTAACTCGATCATGGAAGATTATCCTAAGTACAGTGTATATCAACTTTTCTTCTTGTGGACTTC
TAAATCATCAGTGGCTTAAAGAAACAGAGTTTCTCAAAAACCCAGGCAATTATACACTGTCATTGCCGA
ATATGGCTCCCGGCTCTATAATTACCAGGCCAGACTCCGCATGCCTAAGGAGCAACAGGAACCTTTAAAG
AAAGAAAGCCAGACTTTGGAGAACAATTTTCGTGAAATCTGTTTTTAATTGAACAAATAGATGTTCTGA
AGGCGTTGCTTAAAGACATGAAGGACGGGTACACAATCACAGCTTGCCTGTTCCCGAGATGCTGTGCA
GGACCAGGCCACTACTGACGTTCTAGATGAGGAAATGTCAAACCTGGTACATTATGTGCTTAAAAAGTTC
AGAGGGGACCAAATACAGTTGGCTGATTATGCCTTGAAGTCAGCAGGAGCCTCTGTCATTGAAGCTGGGA
CCTCAGAAAGTTACAAAATAATAAAGCAAACTGTACTGGCATGGCATAGGGTTCTCAACTATGAGAT
GCCTCCGGATATGATACTTCAGCCAGATGTCCACCCTGGGAAGTGTGGGCTTTCCAGGTTCCAGGGT
CACATCCTGATTAAGCTCGCCAGGAAGATCATCCAACAGCAGTTACCATGGAGCACATCTCGGAGAAGG
TGTCCCTTCAGGAAACATCTCAAGTGCACCAAGGAGTTCTCTGTCTATGGCGTTATGAAGAAATGTGA
AGGAGAAGAAATATTCTAGTCAAGTTTATTTATAACAAAATGGAAGCAACCATTCAAACATTTGAGCTC
CAGAATGAAGCTTCTGAATCTTTGCTATGTGTAACAACTTCAAATCCTTAGCAACTGGGACATCCAAAGT
ATACGTGTTTGTACCGATTTAGAGTCCACGGCATCCCCAGTGATTACACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229229 representing NM_001290519
 Red=Cloning site Green=Tags(s)

MLTRSWKIILSTVFISTFLLVGLLNHQWLKETEFQKPRQLYTVIAEYGSRLYNYQARLRMPKEQQELLK
 KESQTLNNFRELFLIEQIDVLKALLKDMKDGVHNHSLPVHRDAVQDQATTDLDEEMSNLVHYVLKKF
 RGDQIQLADYALKSAGASVIEAGTSESYKNNKAKLYWHGIGFLNYEMPPDMILQPDVHPGKCWAFPGSQG
 HILIKLARKIIPAVTMEHISEKVSPSGNISSAPKEFSVYGVMMKKCEGEEIFLGQFIYNKMEATIQTFFEL
 QNEASESLLCVKLQILSNWGHPKYTCLYRFRVHGIPSDYT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001290519

ORF Size: 960 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.

RefSeq: [NM_001290519.1](#), [NP_001277448.1](#)

RefSeq Size: 1178 bp

RefSeq ORF: 963 bp

Locus ID: 194974

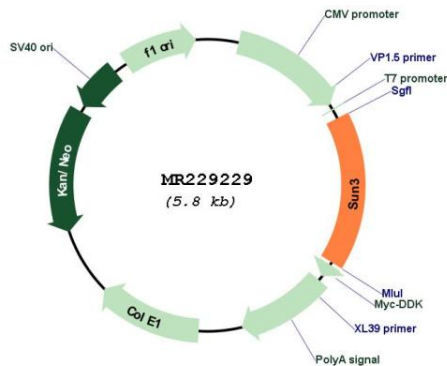
UniProt ID: [Q5SS91](#)

Cytogenetics: 11 A1

MW: 37.2 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 MR229229