

Product datasheet for **MC226642**

Sun3 (NM_001290520) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sun3 (NM_001290520) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sun3
Synonyms: Sunc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226642 representing NM_001290520
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTAAGGAGCAACAGGAACTTTTAAAGAAAGAAAGCCAGACTTTGGAGAACAATTTTCGTGAAATTC
 TGTTTTTAATTGAACAAATAGATGTTCTGAAGGCGTTGCTTAAAGACATGAAGGACGCGTACACAATCA
 CAGCTTGCTGTTACCGAGATGCTGTGCAGGACCAGGCCACTACTGACGTTCTAGATGAGGAAATGTCA
 AACTTGGTACATTATGTGCTTAAAAAGTTCAGAGGGGACCAATACAGTTGGCTGATTATGCCTTGAAGT
 CAGCAGGAGCCTCTGTCATTGAAGCTGGGACCTCAGAAAGTTACAAAAATAATAAGCAAAACTGTACTG
 GCATGGCATAGGGTTCCTCAACTATGAGATGCCTCCGGATATGATACTTCAGCCAGATGCCACCCTGGG
 AAGTGCTGGGCCTTCCAGGTTCCAGGGTCACATCCTGATTAAGCTCGCCAGGAAGATCATCCCAACAG
 CAGTTACCATGGAGCACATCTCGGAGAAGGTGTCCCTTCAGGAAACATCTCAAGTGCACCCAAGGAGTT
 CTCTGTCTATGGCGTTATGAAGAAATGTGAAGGAGAAGAAATATTCCTAGGTCAGTTTATTATAACAAA
 ATGGAAGCAACCATTCAAACATTTGAGCTCCAGAATGAAGCTTCTGAATCTTTGCTATGTGTAACACTTC
 AAATCCTTAGCAACTGGGGACATCCAAAGTATACGTGTTTGTACCGATTTAGAGTCCACGGCATCCCCAG
 TGATTACACT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290520
Insert Size: 783 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001290520.1, NP_001277449.1</u>
RefSeq Size:	1101 bp
RefSeq ORF:	783 bp
Locus ID:	194974
UniProt ID:	<u>Q5SS91</u>
Cytogenetics:	11 A1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) contains an alternate 5'-terminal exon, lacks part of the 5' coding region, and uses a downstream start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus, compared to isoform a.</p>