

## Product datasheet for **MC227018**

### Sun3 (NM\_001290519) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sun3 (NM\_001290519) 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:** >MC227018 representing NM\_001290519  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTAACTCGATCATGGAAGATTATCCTAAGTACAGTGTATATCAACTTTTCTTCTGTTGGACTTC  
 TAAATCATCAGTGGCTTAAAGAAACAGAGTTTCTCAAAAACCCAGGCAATTATACACTGTCATTGCCGA  
 ATATGGCTCCCGCTCTATAATTACCAGGCCAGACTCCGCATGCCTAAGGAGCAACAGGAACTTTAAAG  
 AAAGAAAGCCAGACTTTGGAGAACAATTTTCGTGAAATTCGTTTTAATTGAACAAATAGATGTTCTGA  
 AGGCGTTGCTTAAAGACATGAAGGACGGCGTACACAATCAGACTTGCCTGTTCCCGAGATGCTGTGCA  
 GGACCAGGCCACTACTGACGTTCTAGATGAGGAAATGTCAAACCTGGTACATTATGTGCTTAAAAAGTTC  
 AGAGGGGACCAAAATACAGTTGGCTGATTATGCCTGAAGTCAAGCAGGAGCCTCTGTCATTGAAGCTGGGA  
 CCTCAGAAAGTTACAAAATAATAAGCAAACTGTACTGGCATGGCATAGGGTTCTCAACTATGAGAT  
 GCCTCCGGATATGATACTCAGCCAGATGTCCACCCTGGGAAGTCTGGGCTTTCCAGGTTCCAGGGT  
 CACATCCTGATTAAGCTCGCCAGGAAGATCATCCAACAGCAGTTACCATGGAGCACATCTCGGAGAAGG  
 TGTCCCCTCAGGAAACATCTCAAGTGCACCCAAGGAGTTCTGTCTATGGCGTTATGAAGAAATGTGA  
 AGGAGAAGAAATATTCTAGGTCAGTTTATTTATAACAAAATGGAAGCAACCATTTCAAACATTTGAGCTC  
 CAGAAATGAAGCTTCTGAATCTTTGCTATGTGTAACAACTTCAAATCCTTAGCAACTGGGGACATCCAAAGT  
 ATACGTGTTTGTACCGATTTAGAGTCCACGGCATCCCCAGTGATTACACT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290519  
**Insert Size:** 963 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001290519.1</a></u> , <u><a href="#">NP_001277448.1</a></u>
<b>RefSeq Size:</b>	1178 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	194974
<b>UniProt ID:</b>	<u><a href="#">Q5SS91</a></u>
<b>Cytogenetics:</b>	11 A1
<b>Gene Summary:</b>	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] Transcript Variant: This variant (1) encodes the longer isoform (a).