

## Product datasheet for **SC331328**

### **SUN2 (NM\_001199580) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SUN2 (NM_001199580) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUN2
Synonyms:	UNC84B
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331328 representing NM\_001199580.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCCCGAAGAAGCCAGCGCCTCACGCGCTACTCCCAGGGTGACGATGACGGCAGCAGCAGCGGGA
GGGAGCTCGGTGGCTGGGAGTCAGAGCACCCCTGTTTAAAGACAGTCTCTCAGGACCTTGAAGAGGAAA
TCCAGCAACATGAAGCGCCTGTCCCCAGCGCCACAGCTGGGCCGCTCCTGTATGCACACACCTCTAC
TACAGTGAATCGCTGGTCCACGAGTCTGGTTCACACCCAGGAGCTCCCTGGAGGAAGTGCATGGTGAC
GCCAACTGGGGTGAAGACCTGCGGGTGCAGGAGGAGAGGCACGGGTGGCTCAGAGAGCAGCAGGGCC
AGCGGGCTTGTGGGGCGCAAGGCCACCGAGGACTTCTGGGCTTCTCTCGGGCTACTCCTCTGAGGAC
GACTACGTGGGCTACTCGGATGTGGACCAGCAGAGTTCAGCTCGCGGCTCCGAAGCGCCGCTCTCACGG
GCGGGCTCCTTACTCTGGATGGTGGCCACTTCGCCAGGCCGGCTCTTCACTTCTCTACTGGTGGGCT
GGCACCACCTGGTACCGCTGACCACAGCTGCCTCCCTCCTTGACGTCTTCGTTTTAACAGGCGCTTC
TCGTCCCTGAAGACGTTCTCTGGTTCCTGCTGCCGCTGCTTTGCTGACGTGCCTGACGTATGGTGT
TGGTATTTCTACCCCTATGGGCTGCAGACATCCACCCTGCTTTGGTTTCTGGTGGGCAGCGAAGGAC
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AAGGAGGCCATGCGGCTGGAACGTCTGGAGCTGCGGCAAGGGGCTCCTGGCCAGGAGGTGGTGGTGGC
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GATTTCCGAGGGAAACTGCTGCTCGCATCCAGGAAGAACTGTCTGCCCTGAGAGCAGAGCATCAGCAA
GACTCAGAAGACCTTTCAAGAAGATCGTCCGGCCCTCCAGGAGTCCGAGGCTCGCATCCAGCAGCTG
AAGTCAGAGTGGCAAAGCATGACCCAGGAGTCTTCCAGGAGAGCTCTGTGAAGGAGCTGAGGCGGCTG
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GCCGCGGCTCCTGAGCCTGACGCTGCAGAAAGAAGGTGTGATTGGAGTGACAGAGGAGCAGGTGCAC
CACATCGTGAAGCAGGCCCTGCAGCGCTACAGTGAGGACCGCATCGGGCTGGCAGACTACGCCCTGGAG
TCAGGAGGGGCCAGCGTCATCAGCACCCGATGTTCTGAGACCTACGAGACCAAGCAGGCCCTCCTCAGC
CTTTCCGCATCCCCCTGTGGTACCCTCCAGTACCCCGAGTGCATCCTCCAGCCAGATGTGCACCCA
GGCAACTGCTGGGCTTCCAGGGGCCACAAGGCTTCGCCGTGGTCCGCTCTCTGCCGCATCCGCCCC
ACAGCCGTTACCTTAGAGCATGTGCCAAAGGCTTGTACCCAACAGCACTATCTCCAGTCCCCCAAG
GACTTCGCATCTTTGGGTTTGCAGAGACCTGCAGCAGGAGGGGACACTCCTTGCAAGTTCACCTAC
GATCAGGACGGCGAGCCTATTCAGACGTTTCACTTTCAGGCCCTACGATGGCCACGTACCAGGTGGTG
GAGCTGCGGATCCTGACTAACTGGGGCCACCCGAGTACACTGCATCTACCGCTTCCAGAGTGCATGGG
GAGCCCGCCACTAG
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001199580

**Insert Size:** 2154 bp

**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).

**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\\_001199580.1](#)

**RefSeq Size:** 4006 bp

**RefSeq ORF:** 2154 bp

**Locus ID:** 25777

**UniProt ID:** [Q9UH99](#)

**Cytogenetics:** 22q13.1

**Protein Families:** Transmembrane

**MW:** 80.3 kDa

**Gene Summary:** SUN1 (MIM 607723) and SUN2 are inner nuclear membrane (INM) proteins that play a major role in nuclear-cytoplasmic connection by formation of a 'bridge' across the nuclear envelope, known as the LINC complex, via interaction with the conserved luminal KASH domain of nesprins (e.g., SYNE1; MIM 608441) located in the outer nuclear membrane (ONM). The LINC complex provides a direct connection between the nuclear lamina and the cytoskeleton, which contributes to nuclear positioning and cellular rigidity (summary by Haque et al., 2010 [PubMed 19933576]).[supplied by OMIM, Nov 2010]

Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 3 both encode the same isoform (b).