

## Product datasheet for **SC127694**

### **SUN1 (NM\_025154) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SUN1 (NM_025154) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUN1
Synonyms:	UNC84A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127694 sequence for NM\_025154 edited (data generated by NextGen Sequencing)

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ATGTCCC GCCGTAGTTTGCGCCTGGCCACGACAGCATGCACCCTGGGGGATGGTGAGGCT
GTGGGTGCCGACAGCGGCACCAGCAGCGCTGTCTCCCTGAAGAACCAGCGGCCAGAAC
ACAAAACAGCGCAGAAGCACAAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAG
GTCACGTCTCTGGCGTCAGCCACGGCGCACTGTCAGCCTGCAGGATGCTGTGACTCGA
CGGCCTCCTGTATTGGACGAGTCTTGGATTTCGTGAACAGACCACAGTGGACCACCTCTGG
GGTCTTGATGATGATGGTGATCTTAAAGGTGAAATAAAAGCTGCCATTACGGGAAACGGG
GATGTGGGAGCCCGCCGCCACCGCGCACAAACGGCTTCTCTGCAGCAACTGCAGCATG
CTGTCCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGAG
GTTTATTCTAGGGACAGGAATCAAAAATGGAAGGCAGCCTCTGGAGTGTCTGGTGGCTG
GGGATTGGATGGTACCAGTTTGTACTTTGATTTCTTGGCTGAATGTGTTTCTTCTTACC
AGGTGCCTTCGAAACATCTGCAAGTTTTAGTCTTGCTCATCCCCTCTCTCTTTACTA
GNNGTCTCTCCTTACGGGGCCAGGGCAATTTCTTTTCGTTCTTGCCCGTGTGAACTGG
GCAAGCATGCATAGAACACAGCGGGTGGATGACCCCCAGGACGTGTTAAACCCAGCACT
TCTCGCCTGAAGCAGCCTCTGCAGGGTGACAGTGAGGCTTTTCCGTGGCATTGGATGAGT
GGCGTGGAGCAGCAGGTGGCCTCTCTGTCTGGACAGTGCCACCACCATGGTGAGAATCTC
CGAGAGCTGACCACTTTGCTACAGAAGCTGCAGGCTCGGGTGGACCAGATGGAAGCGGC
GCTGCCGGGCCGTGAGCTTCGGTCAGAGACGCTGTGGGACAGCCCCGAGGGAGACTGAC
TTTATGGCCTTTACCAAGAACATGAAGTGCATGTGCACACTTGGAAAGATATTCTGGGA
AAACTGAGAGAAAACTGAGGCCATCCAGAAGGAACTAGAACAGACCAAGCAAAAAACA
ATCAGTCCGGTTGGTGAACAGCTCCTGCCACGGTCAAGCACCTCCAGCTGGAGCTGGAT
CAGTAAAGTCAGAGCTGTCCAGCTGGGACACGTGAAGACCCGGTGTGAGACAGTGGAT
GCCGTACAAGAAAGAGTGGACGTGCAAGTCAGAGAAATGGTGAAACTCCTGTTTTCCGAA
GATCAGCAAGGGGTTCTCTGGAACAGCTGCTGCAGAGTTTCTCATCACAGTTTGTGAGC
AAAGGCGACTTGCAGACGATGCTGCGAGACCTGCAGCTGCAGATCCTGCGGAACGTCACC
CACCACGTTTCCGTGACCAAGCAGCTCCCAACCTCAGAAGCCGTGGTGTCTGCTGTGAGC
GAGGCGGGGGCGTCTGGAATAACAGAGGCGCAAGCACGTGCCATCGTGAACAGCGCCTTG
AAGCTGTATTCCAAGATAAGACCGGGATGGTGGACTTTGCTCTGGAATCTGGTGGTGGC
AGCATCTTGAGTACTCGCTGTTCTGAAACTTACGAAACAAAACGGCGCTGATGAGTCTG
TTTGGGATCCCGCTGTGGTACTTCTCGCAGTCCCAGCGCTGGTATCCAGCCTGACATT
TACCCCGTAACTGCTGGGCATTTAAAGGCTCCCAGGGTACCTGGTGGTGGAGGCTCTCC
ATGATGATCCACCAGCCGCCTTCACTCTGGAGCACATCCCTAAGACGCTGTGCGCAACA
GGCAACATCAGCAGCGCCCCAAGGACTTCGCCGTCTATGGATTAGAAAATGAGTATCAG
GAAGAAGGGCAGCTTCTGGGACAGTTCACGTATGATCAGGATGGGGAGTCCGCTCCAGATG
TTCCAGGCCCTGAAAAGACCCGACGACAGCTTTCCAAATAGTGGAACTTCGGATTTTT
TCTAACTGGGGCCATCCTGAGTATACCTGTCTGTATCGGTTACAGGTTTCATGGCGAACCT
GTCAAGTGA
    
```

Clone variation with respect to NM\_025154.5  
 662 c=>n;663 a=>n;1173 a=>g;1177 g=>a

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_025154 unedited  
 GGTTTGAAGTGGTGAACATGGATTTTTCTCGGCTTCACATGTACAGTCTCCCCAGTGTG  
 TGCCGGAGAACACGGGCTACACAGTATGCGCTCAGTTCAGCTATTCTTCAGATGCTCTG  
 GATTTTGAGACGGAGCACAATTTGGACCCTGTATTTGATTCTCCACGGATGTCCCGCCGT  
 AGTTTGCGCCTGGCCACGACAGCATGCACCCTGGGGATGGTGAAGGCTGTGGGTGCCGAC  
 AGCGGCACCAGCAGCGCTGTCTCCCTGAAGAACCGAGCGGCCAGAACAACAAAACAGCGC  
 AGAAGCACAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAGGTACGTCCTCT  
 GGCGTCAGCCACGGCGGCACTGTACGCCCTGCAGGATGCTGTGACTCGACGGCCTCCTGTA  
 TTGGACGAGTCTTGATTCTGTGAACAGACCACAGTGGACCACTTCTGGGGTCTTGATGAT  
 GATGGTATCTTAAAGGTGAAAATAAAGCTGCCATTACAGGAAACGGGGATGTGGGAGCC  
 GCCCGCCACCGCGCACAAACGGCTTCTCCTGCAGCAACTGCAGCATGCTGTCCGAGCGC  
 AAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGAGTTTATTCTAGG  
 GACAGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_025154 unedited  
 TAGCTATGGACCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTAAAAAT  
 TAAAACTTTTATTTAAACCTCTAATAGCATCTTATCAATTTGGTGGCAGCAGCAGAAG  
 CACTACCAAAGACAGATATTTTAAAAAGCATTACAAAAATACATTGCACAAAGTCTAT  
 CTTGCATCTTTAAAAATAAATTAATTTCAAAATATTTCCACCCCAAATCCCAAATCAGT  
 TTTATATAGGAAATTTTGATTTATATATGTAACCTGTAATATATGAAACATCTGTACATT  
 TTATCTGCCTTAACTGCATAGTTCCAATTCTAAGGAGAGTAAAAAAATGCTGCTTGATG  
 TATGAATAGTTTCATACATCAGTGTATTTGAGGACTGTTGTGCAATATACAGAAAACCAG  
 TCAGCACCATCGTTTTGTCTTTTCTGAAAACACAACATTTACGGTACACTGAAAACGT  
 CTTAACCAACACAACCTAAATAATTCTTAAGGTAACATCTGTAACACTTTAAGTGCC  
 TTGTAGATATCTCATTTATAAAGTCTGCTCAGTAAAAATAGTCTAAATATTTAAATAGTAAT  
 TATAACCAAAAAGAGTCTCACAAGAATCACGTGAGAATGGTGACAGCTGTGATAAAGGCA  
 GATTCCAGCCACAGCCAGTAAGAAATGTGCTGAAGGAAAAAGGATCGTNCTGAAATGTA  
 ACGGGTTCGTGACCCTGACACACCAGACGGCTCCNTCTATCACCACCAAGTGAAGGGGAGG  
 CTCAGGNCGTCTTGGCCTTCTATCAGCAAACTCAAACAAGCCTGAAACACCCAGATGAG  
 ATTTTGGGTTTNTGTTACTGNGACTCCANCAGANAAAGCTGCTGAGACANAGAACCATC  
 TGGTGNTNGCTAGATCAANNACAGCCNTCAGTAGACTGCTTAGCTACAGGAAGCGACGTCC  
 ATTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_025154

**Insert Size:**

4350 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\\_025154.2](#), [NP\\_079430.2](#)

**RefSeq Size:** 4047 bp

**RefSeq ORF:** 3840 bp

**Locus ID:** 23353

**UniProt ID:** [O94901](#)

**Cytogenetics:** 7p22.3

**Protein Families:** Transmembrane

**Gene Summary:** This gene is a member of the unc-84 homolog family and encodes a nuclear envelope protein with an Unc84 (SUN) domain. The protein is involved in nuclear anchorage and migration. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2019]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. This variant also lacks an in-frame exon in the 5' portion of the coding region. The encoded isoform (b) is shorter than isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.