

## Product datasheet for RC229777

### SUN1 (NM\_001171946) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: SUN1 (NM\_001171946) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: SUN1  
 Synonyms: UNC84A  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC229777 representing NM\_001171946  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATTTTCTCGGCTTCACATGTACAGTCTCCCCAGTGTGTGCCGGAGAACACGGGCTACACGTATG  
 CGCTCAGTTCCAGCTATTCTTCAGATGCTCTGGATTTTGAGACGGAGCACAATGGACCCTGTATTTGA  
 TTCTCCACGGATGTCCCCTAGTTTGCCTGGCCACGACAGCATGCACCCTGGGGGATGGTGGGCT  
 GTGGGTGCCGACAGCGGCACCAGCAGCGTGTCTCCCTGAAGAACCAGCGGCCAGAACAACAAACAGC  
 GCAGAAGCACAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAGGTACGTCCTCTGGCGTCAG  
 CCACGGCGGCACTGTGAGCCTGCAGGATGCTGTGACTCGACGGCCTCCTGTATTGGACGAGTCTGGATT  
 CGTGAACAGACCACAGTGGACCCTTCTGGGGTCTTGATGATGATGGTGATCTTAAAGGTGAAATAAAG  
 CTGCCATTAGGGAAACGGGGATGTGGGAGCCGCCCGCCACCAGCGCACAACGGCTTCTCTGCAGCAA  
 CTGCAGCATGCTGTCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGA  
 GTTTATTCTAGGGACAGGAATCAAAAATGTAAGTCTCAGTCTTTAAACTCAGAAAAAGGTGTGTTTTC  
 CAAATTAATATTTCTTCTGTAAGTCTCAGTGTCTGCACTATTTGTCTGGAGACTTAAATATCCC  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229777 representing NM\_001171946  
Red=Cloning site Green=Tags(s)

MDFSRLHMYSPPQCVPEPTGYTYALSSSYSSDALDFETEHKLDPVDFSPRMSRRSLRLATTACTLGDGEA  
 VGADSGTSSAVSLKNRAARTTKQRRSTNKSAFSINHVSRQVTSSGVSHGGTVSLQDAVTRRPPVLDESWI  
 REQTTVDHFWGLDDDGLKGGNKAIIQNGDVGAAAATAHNGFSCSNCSMLSERKDVLTAHPAAPGPVSR  
 VYSRDRNQKCKSQSFKTQKKVCFPNLIFFCKSQCLHYLSWRLKIIP

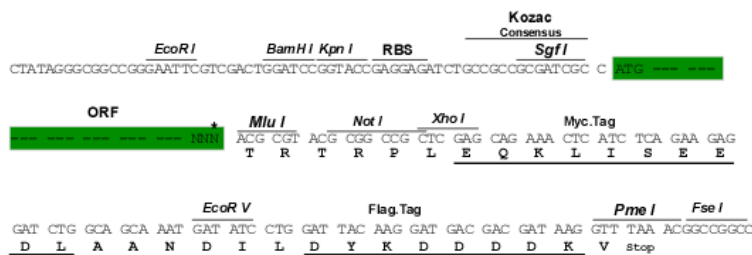
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001171946

**ORF Size:** 771 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\\_001171946.2](#)

**RefSeq ORF:** 774 bp

**Locus ID:** 23353

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

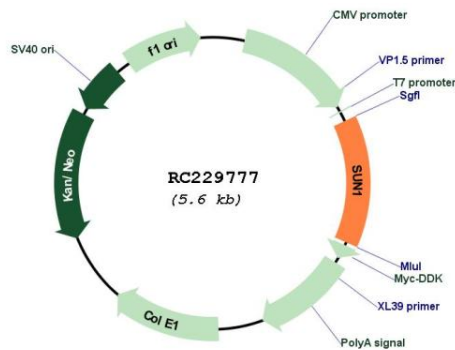
**Cytogenetics:** 7p22.3

**Protein Families:** Transmembrane

**MW:** 28.5 kDa

**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]

**Product images:**



Circular map for RC229777