

## Product datasheet for **RG229818**

### **SUN1 (NM\_001171945) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SUN1 (NM\_001171945) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SUN1  
**Synonyms:** UNC84A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229818 representing NM\_001171945  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAGGATTTCTCCCGGCTCCCCAGGGCTCCCCAGGACAGTATGGTTTGAAGTGGTGAACATGGATT  
 TTTCTCGGCTTCACATGTACAGTCTCCCCAGTGTGTCCCGGAGAACACGGGCTACACGTATGCGCTCAG  
 TTCCAGCTATTCTTCAGATGCTCTGGATTTTGAGACGGAGCACAATTGGACCCTGTATTTGATTCTCCA  
 CGGATGTCCCGCGTAGTTTGCCTGGCCACGACAGCATGCACCCTGGGGATGGTGGGCTGTGGGTG  
 CCGACAGCGGCACCAGCAGCGCTGTCTCCCTGAAGAACCAGCGGCCAGAACAAAACAGCGCAGAAG  
 CACAAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGACAGGTACAGTCTCTGGCGTCAGCCACGGC  
 GGCACTGTGAGCCTGCAGGATGCTGTGACTCGACGGCCTCCTGTATTGGACGAGTCTTGGATTCTGTGAAC  
 AGACCACAGTGGACCACTTCTGGGGTCTTGATGATGATGGTGATCTTAAAGGTGAAATAAAGCTGCCAT  
 TCAGGGAAACGGGGATGTGGGAGCCGCCGCCACCGCGCACACGGCTTCTCTGCAGCAACTGCAGC  
 ATGCTGTCCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGAGTTTATT  
 CTAGGGACAGGAATCAAAAATGTAAGTCTCAGTCTTTAAACTCAGAAAAAGGTGTGTTTTCAAATTT  
 AATATTTCTTTCTGTAAGTCTCAGTGTCTGCACTATTTGTCTTGGAGACTTAAAATTATCCCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229818 representing NM\_001171945  
 Red=Cloning site Green=Tags(s)

MGRISPGSPGLPRTVWFVVMDFSRLLHMYSPQCVPEPENTGYTYALSSSYSSDALDFETEHKLDPVFDSP  
 RMSRRLRLATTACTLGDGEAVGADSGTSSAVSLKNRAARTTKQRRSTNKSAFSINHVSQVTS SSGVSHG  
 GTVSLQDAVTRPPVLDDESWIREQTTVDHFWGLDDDGLKGGNKAAIQNGNDVAAAAATAHNGFSCSNCS  
 MLSEKDVLT AHPAAGPVS RVYSRDRNQKCKSQSFKTQKKVCFPNLIFPFCKSQCLHYLSWRLKIIP

TRTRPLE - GFP Tag - V

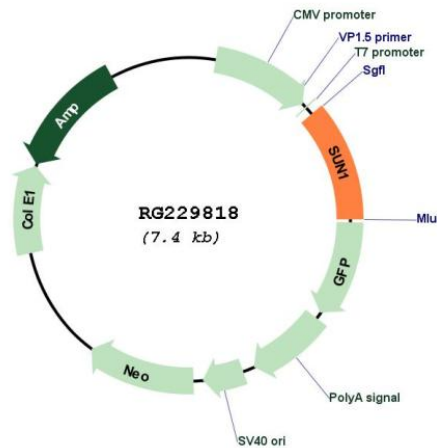
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001171945

**ORF Size:** 834 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001171945.2</a>
<b>RefSeq Size:</b>	1309 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	23353
<b>UniProt ID:</b>	<a href="#">O94901</a>
<b>Cytogenetics:</b>	7p22.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]