

Product datasheet for **RG229777**

SUN1 (NM_001171946) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: SUN1 (NM_001171946) 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: >RG229777 representing NM_001171946
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTTTCTCGGCTTCACATGTACAGTCTCCCCAGTGTGTGCCGAGAACACGGGCTACACGTATG
 CGCTCAGTTCAGCTATTCTTCAGATGCTCTGGATTTTGAGACGGAGCACAAATTGGACCCTGTATTTGA
 TTCTCCACGGATGTCCCGCGTAGTTTGCCTGGCCACGACAGCATGCACCCTGGGGGATGGTGGGCT
 GTGGGTGCCGACAGCGGCACCAGCAGCGTGTCTCCCTGAAGAACCAGCGGCCAGAACAACAAAACAGC
 GCAGAAGCACAAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAGGTACGTCCTCTGGCGTCAG
 CCACGGCGGCACTGTGAGCCTGCAGGATGCTGTGACTCGACGGCCTCCTGTATTGGACGAGTCTTGATT
 CGTGAACAGACCACAGTGGACCCTTCTGGGGTCTTGATGATGATGGTGTCTTAAAGGTGAAATAAAG
 CTGCCATTAGGGAAACGGGGATGTGGGAGCCGCCCGCCACCGCGCACAAACGGCTTCTCTGCAGCAA
 CTGCAGCATGCTGTCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGA
 GTTTATTCTAGGGACAGGAATCAAAAATGTAAGTCTCAGTCTTTAAACTCAGAAAAAGGTGTGTTTTTC
 CAAATTTAATTTCTTTCTGTAAGTCTCAGTGTCTGCACTATTTGTCTGGAGACTTAAATTTATCCC
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229777 representing NM_001171946
 Red=Cloning site Green=Tags(s)

MDFSRLHMYSPQCVPENTGYTYALSSSYSSDALDFETEHLKDPVFDSPRMSRRSLRLATTACTLGDGEA
 VGADSGTSSAVSLKNRAARTTKQRRSTNKSAFSINHVSQVTSVSGVSHGGTVSLQDAVTRRPPVLDESWI
 REQTTVDHFWGLDDGDLKGGNKAAIQNGDVGAAAATAHNGFSCSNCSMLSERKDVLTAHPAAPGPVSR
 VYSRDRNQKCKSQSFKTQKKVCFPNLIFPFCKSQCLHYLSWRLKIIP

TRTRPLE - GFP Tag - V

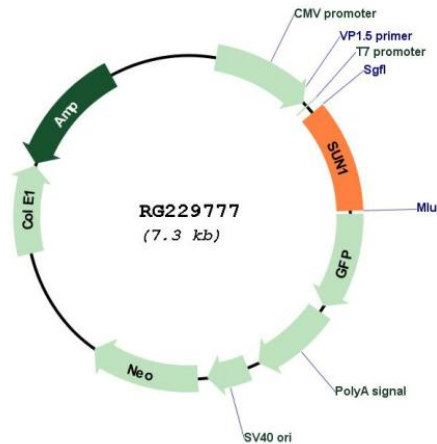
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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 Size:	1077 bp
RefSeq ORF:	774 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]