

Product datasheet for **RG224605**

SUN1 (NM_025154) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUN1 (NM_025154) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RG224605 representing NM_025154
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATTTTTCTCGGCTTACATGTACAGTCTCCCCAGTGTGTGCCGAGAACACGGGCTACACGTATG
CGCTCAGTTCAGCTATTCTTCAGATGCTCTGGATTTTGAGACGGAGCACAAATTGGACCTGTATTGA
TTCTCCACGGATGTCCC GCCGTAGTTTGC GCCTGGCCACGACAGCATGCACCCTGGGGGATGGTGAGGCT
GTGGGTGCCGACAGCGGCACCAGCAGCGCTGTCTCCCTGAAGAACCAGCGGCCAGAACAACAAAACAGC
GCAGAAGCACAAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAGGTACAGTCTCTGGCGTCAG
CTACGGCGGCACTGT CAGCCTGCAGGATGCTGTGACTCGACGGCCTCTGTATTGGACGAGTCTTGGATT
CGTGAACAGACCACAGTGGACCCTTCTGGGTCTTGATGATGATGGTGATCTTAAAGTGGAAATAAAG
CTGCCATT CAGGAAACGGGGATGTGGGAGTCGCCGCCACC CGCACAACGGCTTCTCTGCAGCAA
CTGCAGCATGCTGTCCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGA
GTTTATTCTAGGGACAGGAATCAAAAATGCGACGACTGTAAAGGCAAGAGGCACCTCGACGCGCACCCCG
GTCGGGCAGGGACCCTCTGGCACATCTGGGCATGTGCAGGTTACTTCTTCTGCTGCAGATTCTGCGCAGGAT
CGGAGCTGTGGGCCAGGCTGTGTCCAGGACGGCGTGGTCCGGCCCTTTGGCTGGCCGTGGTTGCTCCAGGG
AAGGCAGCCTCTGGAGTGTCTGGTGGCTGGGGATTGGATGGTACCAGTTTGTACTTTGATTTCTTGGC
TGAATGTGTTTCTTACCAGTGCCTTCGAAACATCTGCAAGTTTTAGTCTTGTCTATCCCCTCTT
CCTTTTACTAGCAGGTCTCTCCTACGGGGCCAGGGCAATTTCTTTTCGTTCTTGCCCGTGTGAACTGG
GCAAGCATGCATAGAACACAGCGGGTGGATGACCCCAAGGACGTGTTTAAACCCAGCACTCTCGCCTGA
AGCAGCCTCTGCAGGGTGACAGTGAAGCTTTTCCGTGGCATTGGATGAGTGGCGTGGAGCAGCAGGTGGC
CTCTCTGTCTGGACAGTGCACCACCATGGTGAGAATCTCCGAGAGCTGACCACTTTGCTACAGAAGCTG
CAGGCTCGGGTGGACCAGATGGAAGCGCGCTGCCGGCCGTCAGCTTCGGTGCAGAGACCTGTGGGAC
AGCCCCGAGGGAGACTGACTTTATGGCCTTTCACCAAGAACATGAAGTGCATGTACACTTGGGAAGA
TATTCTGGGAAAACAGAGAAAAATCTGAGGCCATCCAGAAGGAACTAGAACAGACCAAGCAAAAAACA
ATCAGTGCAGTGGTGGAGCAGCTCTGCCACAGTCGAGCACCTCCAGCTGGAGCTGGATCAGCTAAAGT
CAGAGCTGTCCAGCTGGCGACACGTGAAGACCGGCTGTGAGACAGTGGATGCCGTACAAGAAAGAGTGA
CGTGAAGTCAGAGAAATGGTGAACCTCTGTTTTCCGAAGTCAGCAAGGCGGTTCTCTGGAACAGCTG
CTGCAGAGTTCTCATCACAGTTTGTGAGCAAAGGCGACTTGCAGACGATGCTGCGAGACCTGCAGCTGC
AGATCCTGCGGAACGTACCCACCACGTTTCCGTGACCAAGCAGCTCCCAACCTCAGAAGCCGTGGTGTG
TGCTGTGAGCGAGGCGGGGGCGTCTGGAATAACAGAGGCGCAAGCACGTGCCATCGTGAACAGCGCCTTG
AAGCTGTATTCCCAAGATAAGACCGGGATGGTGGACTTTGCTCTGGAATCTGGTGGTGGCAGCATTTGA
GTACTCGTGTCTGAAACTTACGAAACCAAAACGGCGCTGATGAGTCTGTTTGGGATCCCGCTGTGGTA
CTTCTCGAGTCCC CGCGGTGGTATCCAGCCTGACATTTACCCCGTAACTGCTGGGCATTTAAAGGC
TCCCAGGGTACCTGGTGGTGGAGCTCTCCATGATGATCCACCAGCCGCTTCACTCTGGAGCACATCC
TAAGACGCTGTCCCAACAGGCAACATCAGCAGCGCCCCAAGGACTTCGCCGTCTATGGATTAGAAAA
TGAGTATCAGGAAGAAGGCGAGCTTCTGGGACAGTTCACGTATGATCAGGATGGGGAGTCGCTCCAGATG
TTCCAGGCCCTGAAAAGACCCGACGACACAGCTTTCAAAATAGTGAACCTTCGGATTTTTCTAACTGGG
GCCATCTGAGTATACCTGTCTGTATCGTTT CAGAGTTTATGGCGAACCTGTCAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224605 representing NM_025154
Red=Cloning site Green=Tags(s)

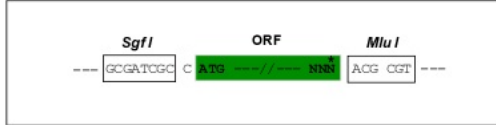
MDFSRLHMYSPPQCVPENTGYTYALSSSYSSDALDFETEHLDPVFDSPRMSRRSLRLATTACTLGDGEA
VGADSGTSSAVSLKNRAARTTKQRRSTNKSAF SINHVSQRVTSSGVS YGGTVSLQDAVTRRPPVLDESWI
REQTTVDHFWGLDDDGLKGGNKA AIQNGDVGVAATAHNGFSCSNCSMLSERKDVLTAHPAAPGPVSR
VYSRDRNQK CDDCKGKRHLDAHPGRAGTLWHIWACAGYFLLQILRRIGAVGQAVSRTAWSALWLA VVAPG
KAASGVFWWLGIGWYQFVTLISWLVNVLTRCLRNICFLVLLIPLFLLLAGLSLRGQGNFFSFLPVLNW
ASMHRTRQVDDPQDVFKPTTSRLKQPLQGDSEAFPWHWMSGVEQQVASLSGQCHHHGENLRELTLLQKL
QARVDQMEGGAAGPSASVRDAVGQPPRETDFMAFHQEHEVRMSHLEDILGKLREKSEAIQKELEQTKQKT
ISAVGEQLLPTVEHLQLELDQLKSELSSWRHVKTGCETVDAVQERVDVQVREMVKLLFSEDQQGGSLEQL
LQRFSSQFVSKGDLQTMLRDLQLQILRNVT HHVSVTKQLPTSEAVVSAVSEAGASGITEA QARAI VNSAL
KLYSQDKTGMVDFALESGGGSILSTRCSEYETKTALMSLFGIPLWYFSQSPRVVIQPD IYPGNCWAFKG
SQGYLVVRLSMMIH PAAFTLEHIPKTL SPTGNISSAPKDFAVYGLENEYQEEGQLLGQFTYDQDGESLQM
FQALKRPDDTAFQIVELRIFSNWGHPEYTCLYRFRVHGEPVK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I BamH I Kpn I RBS Sgf I Asc I

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC -----

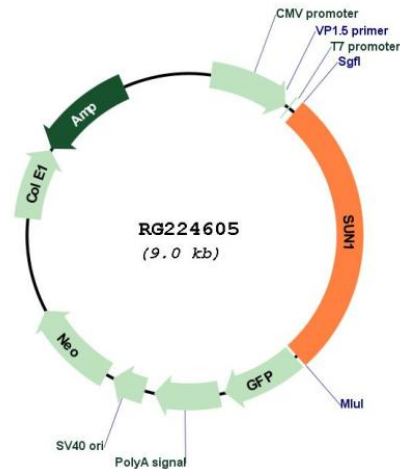
T R T R P L E M E S D - - -

Pme I Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_025154

ORF Size: 3837 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_025154.2](#), [NP_079430.2](#)

RefSeq Size: 4047 bp

RefSeq ORF: 2109 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]