OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG226167

SUN1 (NM_001130965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUN1 (NM_001130965) 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:

>RG226167 representing NM_001130965
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTTTTCTCGGCTTCACATGTACAGTCCTCCCCAGTGTGTGCCGGAGAACACGGGCTACACGTATG
CGCTCAGTTCCAGCTATTCTTCAGATGCTCTGGATTTTGAGACGGAGCACAAATTGGACCCTGTATTTGA
TTCTCCACGGATGTCCCGCCGTAGTTTGCGCCTGGCCACGACAGCATGCACCCTGGGGGATGGTGAGGCT
GTGGGTGCCGACAGCGGCACCAGCAGCGCTGTCTCCCTGAAGAACCGAGCGGCCAGAACAACAAAACAGC
GCAGAAGCACAAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAGGTCACGTCCTCTGGCGTCAG
CCACGGCGGCACTGTCAGCCTGCAGGATGCTGTGACTCGACGGCCTCCTGTATTGGACGAGTCTTGGATT
CGTGAACAGACCACAGTGGACCACTTCTGGGGTCTTGATGATGATGGTGATCTTAAAGGTGGAAATAAAG
CTGCCATTCAGGGAAACGGGGATGTGGGAGCCGCCGCCGCCACCGCGCACAACGGCTTCTCCTGCAGCAA
CTGCAGCATGCTGTCCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCCCGGGCCCGTGTCGAGA
GTTTATTCTAGGGACAGGAATCAAAAATGTTACTTCTTGCTGCAGATTCTGCGCAGGATCGGAGCTGTGG
GCCAGGCTGTGTCCAGGACGGCGTGGTCGGCCCTTTGGCTGGCCGTGGTTGCTCCAGGGAAGGCAGCCTC
TGGAGTGTTCTGGTGGCTGGGGATTGGATGGTACCAGTTTGTTACTTTGATTTCTTGGCTGAATGTGTTT
CTTCTTACCAGGTGCCTTCGAAACATCTGCAAGTTTTTAGTCTTGCTCATCCCACTCTTCCTTTTACTAG
CAGGTCTCTCCTTACGGGGCCAGGGCAATTTCTTTTCGTTCTTGCCCGTGTTGAACTGGGCAAGCATGCA
TAGAACACAGCGGGTGGATGACCCCCAGGACGTGTTTAAACCCACGACTTCTCGCCTGAAGCAGCCTCTG
CAGGGTGACAGTGAGGCTTTTCCGTGGCATTGGATGAGTGGCGTGGAGCAGCAGGTGGCCTCTCTGTCTG
GACAGTGCCACCACCATGGTGAGAATCTCCGAGAGCTGACCACTTTGCTACAGAAGCTGCAGGCTCGGGT
GGACCAGATGGAAGGCGGCGCTGCCGGGCCGTCAGCTTCGGTCAGAGACGCTGTGGGACAGCCCCCGAGG
GAGACTGACTTTATGGCCTTTCACCAAGAACATGAAGTGCGTATGTCACACTTGGAAGATATTCTGGGAA
AACTGAGAGAAAAATCTGAGGCCATCCAGAAGGAACTAGAACAGACCAAGCAAAAAACAATCAGTGCGGT
TGGTGAGCAGCTCCTGCCCACAGTCGAGCACCTCCAGCTGGAGCTGGATCAGCTAAAGTCAGAGCTGTCC
AGCTGGCGACACGTGAAGACCGGCTGTGAGACAGTGGATGCCGTACAAGAAAGAGTGGACGTGCAAGTCA
GAGAAATGGTGAAACTCCTGTTTTCCGAAGATCAGCAAGGCGGTTCTCTGGAACAGCTGCTGCAGAGGTT
CTCATCACAGTTTGTGAGCAAAGGCGACTTGCAGACGATGCTGCGAGACCTGCAGCTGCAGATCCTGCGG
AACGTCACCCACCACGTTTCCGTGACCAAGCAGCTCCCAACCTCAGAAGCCGTGGTGTCTGCTGTGAGCG
AGGCGGGGGCGTCTGGAATAACAGAGGCGCAAGCACGTGCCATCGTGAACAGCGCCTTGAAGCTGTATTC
CCAAGATAAGACCGGGATGGTGGACTTTGCTCTGGAATCTGGTGGTGGCAGCATCTTGAGTACTCGCTGT
TCTGAAACTTACGAAACCAAAACGGCGCTGATGAGTCTGTTTGGGATCCCGCTGTGGTACTTCTCGCAGT
CCCCGCGCGTGGTCATCCAGCCTGACATTTACCCCGGTAACTGCTGGGCATTTAAAGGCTCCCAGGGGTA
CCTGGTGGTGAGGCTCTCCATGATGATCCACCCAGCCGCCTTCACTCTGGAGCACATCCCTAAGACGCTG
TCGCCAACAGGCAACATCAGCAGCGCCCCCAAGGACTTCGCCGTCTATGGATTAGAAAATGAGTATCAGG
AAGAAGGGCAGCTTCTGGGACAGTTCACGTATGATCAGGATGGGGAGTCGCTCCAGATGTTCCAGGCCCT
GAAAAGACCCGACGACACAGCTTTCCAAATAGTGGAACTTCGGATTTTTTCTAACTGGGGCCATCCTGAG
TATACCTGTCTGTATCGGTTCAGAGTTCATGGCGAACCTGTCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

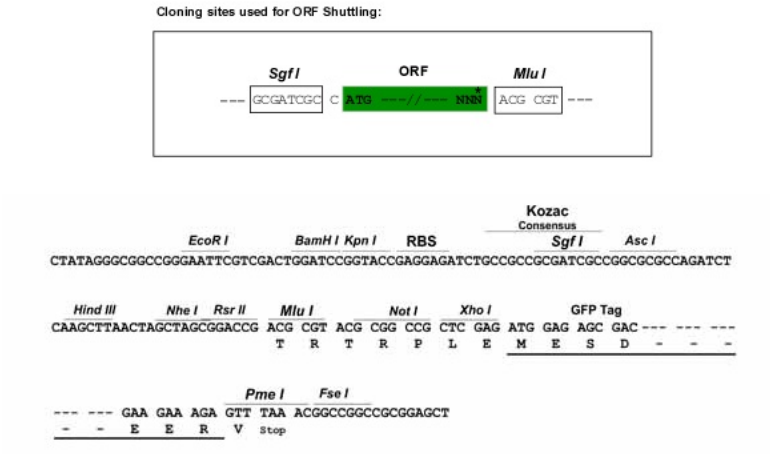
>RG226167 representing NM_001130965
Red=Cloning site Green=Tags(s)

MDFSRLHMYSPPQCVPENTGYTYALSSSYSSDALDFETEHKLDPVFDSPRMSRRSLRLATTACTLGDGEA
VGADSGTSSAVSLKNRAARTTKQRRSTNKSAFSINHVSRQVTSSGVSHGGTVSLQDAVTRRPPVLDESWI
REQTTVDHFWGLDDDGDLKGGNKAAIQGNGDVGAAAATAHNGFSCSNCSMLSERKDVLTAHPAAPGPVSR
VYSRDRNQKCYFLLQILRRIGAVGQAVSRTAWSALWLAVVAPGKAASGVFWWLGIGWYQFVTLISWLNVF
LLTRCLRNICKFLVLLIPLFLLLAGLSLRGQGNFFSFLPVLNWASMHRTQRVDDPQDVFKPTTSRLKQPL
QGDSEAFPWHWMSGVEQQVASLSGQCHHHGENLRELTTLLQKLQARVDQMEGGAAGPSASVRDAVGQPPR
ETDFMAFHQEHEVRMSHLEDILGKLREKSEAIQKELEQTKQKTISAVGEQLLPTVEHLQLELDQLKSELS
SWRHVKTGCETVDAVQERVDVQVREMVKLLFSEDQQGGSLEQLLQRFSSQFVSKGDLQTMLRDLQLQILR
NVTHHVSVTKQLPTSEAVVSAVSEAGASGITEAQARAIVNSALKLYSQDKTGMVDFALESGGGSILSTRC
SETYETKTALMSLFGIPLWYFSQSPRVVIQPDIYPGNCWAFKGSQGYLVVRLSMMIHPAAFTLEHIPKTL
SPTGNISSAPKDFAVYGLENEYQEEGQLLGQFTYDQDGESLQMFQALKRPDDTAFQIVELRIFSNWGHPE
YTCLYRFRVHGEPVK

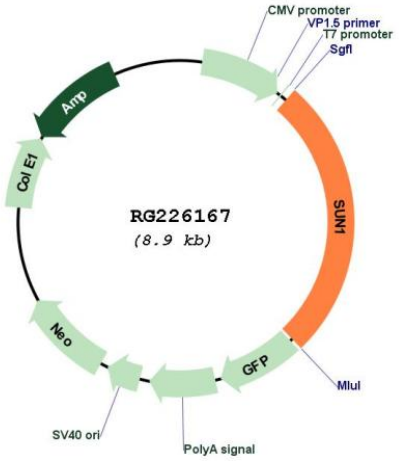
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001130965
ORF Size:	2355 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_001130965.3
RefSeq Size:	4008 bp
RefSeq ORF:	2358 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]