

Product datasheet for **RG215649**

SUNC1 (SUN3) (NM_001030019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SUNC1
Synonyms:	SUNC1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215649 representing NM_001030019
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGAGTGGAAAAACAAAGGCAAGAAGGGCTGCCATGTTTTTTAGACGTTGCTCTGAAGACGCCAGCGGTA
GCGCCAGTGGCAATGCTTTGTTATCAGAGGACGAAAAATCCTGATGCGAATGGGGTAACTCGATCATGGAA
GATTATTCTAAGTACAATGCTTACACTGACTTTTCTTCTGTAGGACTCCTAAATCATCAGTGGCTTAAA
GAAACAGATGTTCTCAGAAATCCAGACAATTATGCCATAATTGCAGAATATGGTTCAAGGCTTTATA
AATATCAGGCCAGACTTCGTATGCCTAAAGAGCAACTGGAACTTTTAAAGAAGGAAAGCCAGAATCTGGA
AAACAATTTTCGTCAAATTCTATTTTGTATCGAACAATAGATGTCCTGAAGGCATTGCTAAGAGATATG
AAGGATGGTATGGACAATAATCACAACGGAACACCCATGGAGACCCTGTGGAGACCCGGACCACACAG
AGGAAGTGTCAAACCTGGTCAATTATGTACTTAAAAAGTTGAGAGAAGACCAAGTCGAGATGGCTGATTA
TGCCCTGAAGTCGGCCGAGCCTCCATCATTGAAGCTGGGACCTCAGAAAGTTATAAAAAATAATAAGCA
AAATTGTACTGGCATGGGATAGGTTTCTAAATCATGAAATGCCTCCAGATATTATTCTTCAGCCGGATG
TCTACCCTGGAAAGTGTGGGCTTTTCCAGGTTCCAGGGTCATACCCTAATCAAGCTTGCTACAAAGAT
CATACCAACTGCTGTTACCATGGAGCACATCTCAGAGAAGGTGTCTCCGTCAGGAAACATCTCCAGTGCA
CCCAAGGAATTTTCTGTCTATGGCATCACAAAAAATGTGAAGGAGAAGAAATTTTCTAGGTCAGTTTA
TATATAACAAAACAGGAACACCGTTCAAACATTTGAACTCCAGCATGCAGTTTCTGAATATTTATTATG
TGTGAAACTTAATATCTTTAGCAACTGGGGACACCCGAAGTATACTTGTATATCGATTTCAGGGTCCAT
GGCACACCAAGCAAGCACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



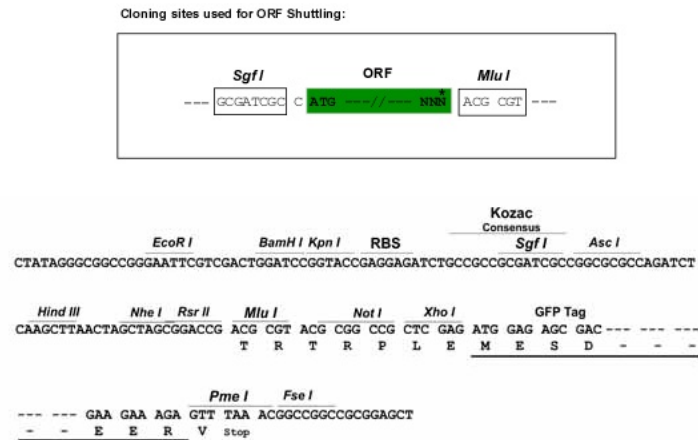
Protein Sequence: >RG215649 representing NM_001030019
Red=Cloning site Green=Tags(s)

MSGKTKARRAAMFFRRCSASGSASGNALLSEDENPDANGVTRSWKIIILSTMLTLTFLLVGLLNHWLKE
ETDVPQKSRQLYAIIEAYGSRLYKYQARLRMPKELELLKKESQNLNNFRQILFLIEQIDVLKALLRDM
KDGMDNNHNNWTHGDPVEDPDHTEEVSNLVNYVLKKLREDQVEMADYALKSAGASIEAGTSESYKNNKA
KLYWHGIGFLNHEMPPDIILQPDVYPGKCWAFPGSQGHTLIKLATKIIPAVTMEHISEKVSPSGNISSA
PKEFSVYGITKKCEGEEIFLGQFIYNKTGTTVQTFELQHAVSEYLLCVKLNIFSNWGHPKYTCLYRFRVH
GTPGKHI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001030019

ORF Size: 1071 bp

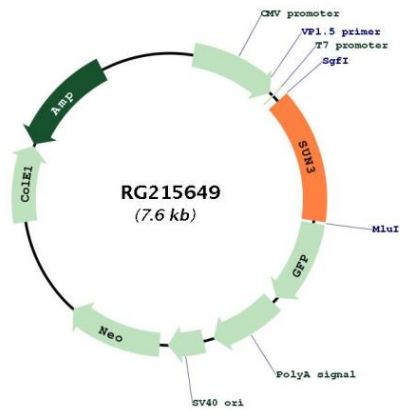
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001030019.2</u>
RefSeq Size:	1452 bp
RefSeq ORF:	1074 bp
Locus ID:	256979
UniProt ID:	<u>Q8TAQ9</u>
Cytogenetics:	7p12.3
Gene Summary:	As a probable component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. May be involved in nuclear remodeling during sperm head formation in spermatogenesis. A probable SUN3:SYNE1 LINC complex may tether spermatid nuclei to posterior cytoskeletal structures such as the manchette.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215649