

Product datasheet for **SC314521**

SUN2 (NM_015374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUN2 (NM_015374) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUN2
Synonyms:	UNC84B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC314521 representing NM_015374.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTCCCGAAGAAGCCAGCGCCTCACGCGTACTCCAGGGTGACGATGACGGCAGCAGCAGCAGCGGA
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TCCAGCAACATGAAGCGCTGTCCCAGCGCCACAGCTGGGCCCGTCTCTGATGCACACCTCCTAC
TACAGTGAGTCGCTGGTCCACGAGTCTGGTTCACCCAGGAGCTCCCTGGAGGAACTGCATGGTGAC
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ACAGCCGTTACCTTAGAGCATGTGCCAAAGGCTTGTACCCAAACAGCACTATCTCCAGTCCCCCAAG
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GATCAGGACGGCAGCCTATTACAGCGTTTCACTTTCAGGCCCTACGATGGCCACGTACCAGGTGGTG
GAGCTGCGGATCCTGACTAACTGGGGCCACCCGAGTACACCTGCATCTACCGCTTACAGTGCATGGG
GAGCCCCCCACTAG
ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_015374

Insert Size: 2154 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_015374.2
RefSeq Size:	4007 bp
RefSeq ORF:	2154 bp
Locus ID:	25777
UniProt ID:	Q9UH99
Cytogenetics:	22q13.1
Protein Families:	Transmembrane
MW:	80.3 kDa
Gene Summary:	<p>SUN1 (MIM 607723) and SUN2 are inner nuclear membrane (INM) proteins that play a major role in nuclear-cytoplasmic connection by formation of a 'bridge' across the nuclear envelope, known as the LINC complex, via interaction with the conserved luminal KASH domain of nesprins (e.g., SYNE1; MIM 608441) located in the outer nuclear membrane (ONM). The LINC complex provides a direct connection between the nuclear lamina and the cytoskeleton, which contributes to nuclear positioning and cellular rigidity (summary by Haque et al., 2010 [PubMed 19933576]).[supplied by OMIM, Nov 2010]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 3 both encode the same isoform (b).</p>