

Product datasheet for **SC315359**

SOS2 (L13858) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOS2 (L13858) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOS2
Synonyms:	NS9
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for L13858, the custom clone sequence may differ by one or more nucleotides

```

ATGCAGCAGGCGCCGAGCCTTACGAGTTCTTCAGCGAGGAGAACAGTCCGAAATGGCGG
GGACTGTTGGTCTCGGCCCTGCGGAAGGTTCAAGTTCAGTGCATCCCACTCTCTCAGCT
AATGAAGAGTCTCTATTATATTGAAGAGCTGATTTTTTCAGCTGCTTAATAAATTATGC
ATGGCCCAGCCAAGGACTGTTCAAGATGTAGAGGAGCGAGTTCAGAAGACCTTTCCTCAC
CCAATTGATAAAATGGGCCATTGCTGATGCACAATCTGCTATAGAAAAACGAAAACGAAGA
AATCCTCTTTTACTGCCTGTGGACAAAAATCCATCCTTCGTTGAAGGAAGTATTAGGGTAC
AAAGTGGACTACCATGTATCCCTATATATTGTGGCTGTACTAGAGTATATCTCAGCTGAT
ATTTTAAAATTGGCTGGTAATTATGTTTTTAATATCCGGCATTATGAAATATCTCAGCAG
GACATTAAGTGTCAATGTGTGCGGATAAGGTTTTGATGGACATGTTTGATCAGGATGAC
ATAGGTTTTGGTTTCTCTGTGAAGATGAACCCTGTTCTTCTGGTGAATTAACACTAT
GATCTTGTGCAACTGAAATCGCAGAAGAAAGACAGTATCTACGGGAATTAATATGATC
ATAAAAGTGTTCGAGAAGCCTTTCTTTCTGATAGAAAGCTGTTTAAACCTTCTGTATAC
GAAAAGATTTTTAGTAACATTTAGATATACATGAATTGACTGTGAAACTTTTAGGTTTG
ATTGAAGACACAGTTGAAATGACTGATGAAAGCAGTCCCTATCCCTTAGCTGGCAGCTGT
TTTGAAGATTTGGCAGAAGAGCAAGCATTGATCCTTATGAAACATTATCACAGGACATT
CTTTCACCAGAGTTTCATGAACATTTCAATAAATTGATGGCCAGACCTGCAGTTGCTCTA
CACTTTCAGTCCATTGCTGATGGTTTTAAAGAGGCAAGTTCGTTATGTCCTTCCACGTCTT
ATGCTGGTGCCAGTGTACTGTTGGCACTACTTTGAGTTACTAAAGCAATTGAAAGCA
TGTAAGTGAAGAACAAGAAGACAGAGAATGTTTGAACCAAGCTATTACTGCTCTCATGAAT
CACCAAGGTAGCATGGACCGAATTTACAAGCAGTATTCACCTAGACGTCGACCTGGAGAT
CCTGTTTGGCCTTTTTATAGTCACCAATTAAGAAGCAAACACCTGGCTATCAAAAAATG
AATGAAATTCAGAAAAATATCGATGGATGGGAAGGCAAAGATATTGGACAGTGTGTAAT
GAATTCATTATGGAGGGACCATTGACAAGAATCGGTGCCAAACATGAACGGCATATTTTT
CTGTTTGTGGCTTAATGATCAGTTGTAACCTAATCATGGCCAGACTCGGCTTCCAGGT
TACACTAGTGCAGAATACAGGTTAAAAGAAAAATTTGTCATGAGGAAAATACAAATTTGT
GATAAAGAAGATACTTGTGAGCACAAGCATGCATTTGAATTAGTATCCAAGATGAGAAC
AGCATAATATTTGCTGCTAAGTCTGCTGAAGAAAAAAACAACCTGGATGGCAGCCCTTATT
TCTCTTCATTATCGTAGTACTCTAGATCGAATGTTAGATTCAGTATTATTGAAAGAAGAA
AATGAGCAACCACTGAGATTACCAAGTCTGAAGTATATCGTTTTGTAGTAAAAGACTCT

```



[View online >](#)

GAGGAAAACATTGTTTTGAAGACAACCTGCAAAGTAGAAGTGGCATCCCCATTATTA
 GGAGAACTGTAGTGAATTAATTGAAAGGTTAACATATCATATGTATGCAGATCCCAAT
 TTTGTTCTACTTTTCTTACCACATATCGTTTCATTTTGTAAACCACAGGAATTGCTGAGC
 TTAAGTATTGAACGGTTTGAATTCAGAGCCAGAACCTACTGACGCAGACAAATGGCA
 ATAGAGAAAGGCGAGCAGCCAATCAGTGCAGACCTTAAAAGATTCGCAAGGAATATGTC
 CAACCAAGTACAACCTTAGGGTACTTAATGTATTCCGCCATTGGGTTGACCATCATTATTAT
 GACTTTGAAAGAGACCTGGAATTGCTGGAAAGACTAGAATCCTTCATTTCAAGTGTAAAG
 GGGAAAGCTATGAAAAATGGGTAGAGTCAATTGCTAAGATCATCAGGAGGAAGAAGCAA
 GCTCAGGCAAATGGAGTAAAGCCATAATATTACCTTTGAAAGTCCACCTCCACCAATTGAA
 TGGCATATCAGCAAACCAGGACAGTTTGAACATTTGATCTCATGACACTTGATCCAATA
 GAAATTGCACGTGAGTGCACACTTTTGGAGTCTGATCTTTACAGGAAAGTTCAACCGTCT
 GAACCTGTAGGGAGTGTGTGGACCAAAGAAGATAAAGAAATAAATTCCTCAAATTTATTA
 AAAATGATTCGCATACCACAAATCTCACCTCTGGTTTAAAAATGCATTGTGGAAGCA
 GAAAAATTTGAAGAACGGGTGGCAGTACTAAGTAGAATTATAGAAATTCGCAAGTTTTT
 CAAGATTTGAATAATTTCAATGGCGTATTGGAGATAGTCAAGTGCAGTAAATTCAGTGTCA
 GTATACAGACTAGACCATACCTTTGAGGCACTGCAGGAAAGGAAAAGGAAAATTTTGAC
 GAAGCTGTGGAATTAAGTCAAGTCACTTTAAAAAATACCTAGTAAAACCTTAAGTCAATC
 AATCCACCTTGTGTGCCTTTTTTTGGAATATATTTAACAAATATTCTGAAGACCGAAGAA
 GGGAAATAATGATTTTTTAAAAAGAAAGGGAAAAGATTTAATCAATTTTCAGTAAGAGGAGG
 AAAGTAGCTGAAATTAAGTGGAGAAATTCAGCAGTATCAGAATCAGCCTTACTGTTTACGG
 ATAGAACCAGATATGAGGAGATTCTTTGAAAACCTTAACCCATGGGAAGTGCATCTGAA
 AAAGAGTTTACAGATTATTTGTTCAACAAGTCACTAGAAATGAACCTCGAAACTGCAAA
 CAGCCACCTCGATTTCTAGGAAATCACTTTTTCTTAAAATCTCCTGGAATAAGGCCT
 AACACAGGCCGACATGGCTCTACCTCAGTACTTTACGAGGTCAACCAACACCATTAGAA
 AGAGAACCATGTAATAAAGCTTTAGTCGGATTGCTGAAACTGAGCTGGAATCAACAGTG
 TCAGCACCAACCTCTCAAATACACCATCTACTCCACCAGTATCTGCTTCTTCAGACCTT
 AGTGTATTTTTAGATGTGGATCTCAACAGCTCCTGTGGCAGCAATAGCATCTTTGCTCCA
 GTGCTTTTGCCACATTCAAAGTCTTTCTTTAGTTCATGTGGTAGTTTACATAAACTAAGT
 GAAGAGCCCTGATTCTCCTCCTCTTCTCCTCGAAAAAGTTTGATCATGATGCTTCA
 AATTCAAAGGAAATATGAAATCTGATGATGATCCTCCTGCTATTCCACCGAGACAGCCT
 CCTCCTCAAAGTAAAACCCAGAGTTCCTGTTCTACTGGTGCATTTGATGGGCTCTG
 CATAGTCCACCTCCGCCACCACCAAGAGATCCTCTTCTGATACCCTCCACCAGTTCCC
 CTTCCGGCTCCAGAACACTTTATAAACTGTCCATTTAATCTTCAGCCACCTCCACTGGGG
 CATCTTACAGAGATTGAGACTGGCTCAGAGACATTAGTACGTGTCCAAATTCGCCAAGC
 ACTCCTCTAGCACACCTCTCCAAGGGTACCGCGTGCATGCTATGTGCTCAGTTCTAGT
 CAGAATAATCTTGCTCATCTCCAGTCCCCCTGTTCCACCAAGGCAGAAATTCAGCCCT
 CATCTGCCAAAAGTCCACCAAGACTTACAAACGGGAGCTTTTCGACCCCCCATTTGATC
 AGACTGCCTTTGCTAGAAAATGCAGAACTCCCAA

Restriction Sites:

Please inquire

ACCN:

L13858

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:	<u>L13858.1, AAA35914.1</u>
RefSeq Size:	3999 bp
RefSeq ORF:	3999 bp
Locus ID:	6655
Cytogenetics:	14q21.3
Domains:	RhoGEF, RasGEFN, PH, RasGEF
Protein Pathways:	Acute myeloid leukemia, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway
Gene Summary:	This gene encodes a regulatory protein that is involved in the positive regulation of ras proteins. Mutations in this gene are associated with Noonan Syndrome-9. [provided by RefSeq, Jul 2016]