

Product datasheet for **SC115569**

SHOC2 (NM_007373) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC2 (NM_007373) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHOC2
Synonyms:	NSLH1; SIAA0862; SOC2; SUR8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115569 sequence for NM_007373 edited (data generated by NextGen Sequencing)

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ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCTAAAGAAAAGATCCCAAAGTACCATCA
GCCAAGGAAAGAGAAAAGGAGGCAAAAGCCTCTGGAGGTTTTGGGAAAGAGAGCAAGAA
AAAGAACCTAAGACCAAAGGGAAAGATGCCAAAGATGGAAAGAAGGACTCCAGTGCTGCC
CAACCAGGGGTGGCATTTCAGTTGACAATACGATCAAACGGCCAAACCCAGCACCTGGG
ACTAGAAAAAATCCAGCAATGCAGAGGTGATTAAAGAGCTCAACAAATGCCGGGAAGAG
AATTC AATGCGTTTGACTTATCCAAGAGATCTATACACATATTGCCATCATCAATCAAA
GAGTTGACTCAATTAACAGAACTTTATTTATACAGTAACAAATTGCAGTCCCTCCAGCA
GAGGTGGGATGTTTAGTAAATCTCATGACACTGGCTCTAAGTGAAAATCACTTACCAGT
TTGCCTGACTCTCTTGATAACTTGAAGAAGCTGCGGATGCTTGATTTACGGCATAATATA
CTGAGAGAAAATCCTTCAGTGGTGTATAGGCTGGATTCTCTCACCCTCTTTACCTTCGC
TTTAATCGTATAACTACTGTGAAAAGGACATCAAAAATTTGTCAAACTCAGCATGCTT
AGCATTGAGAGAACAAAATTAACAACACTACCTGCTGAAATTTGGTGAATTATGTAACTC
ATTACGCTGGATGTAGCTCACAATCAACTTGAACACCTTCCAAAGGAGATTGGAACTGT
ACACAGATAACCAACCTTGACTTGACGACAATGAAGTGTAGACCTCCAGATACTATA
GGAAACCTGTCCAGTTTAAGTCGTCTTGGTCTGAGATATAACAGACTGTGAGCAATACCC
AGATCATTAGCAAAATGCAGTGCCTTGAAGAATTAATTTAGAGAACAAATAACATTTCT
ACTTTACCAGAGAGTCTTTTATCAAGTCTTGTGAACTGAATAGTTTGACCTTAGCTAGA
AATTGCTTCCAGTTGTATCCAGTGGGTGGTCCATCTCAGTTTTCTACCATCTATTCCCTC
AACATGGAACACAATCGAATCAACAAAATTCATTTGGAATTTTCTCCAGAGCAAAAGTA
TTAAGTAAGCTGAATATGAAGGACAATCAGTTAACATCACTTCCCTTGGATTTTGGAACT
TGGACCATGATGGTAGAATTGAATTTAGCCACTAATCAGCTCACAAAGATCCCTGAGGAT
GTGCTCTGGTCTCGTTTCTTGGAGTTCTTATCTTATCAAAACAATCTTCTAAAGAAGCTT
CCCCATGGTCTTGGAACCTTAGGAAGTTAAGAGAGTTGGATCTAGAAGAGAACAAATTG
GAATCCTTGCCAAATGAAATTGCATATCTTAAGGATTTACAGAAATTAGTCTTGACAAAC
AACCAGTTGACCACTCTTCCAGAGGCATTGGTCACCTTACTAATCTCACACATCTGGGC
CTTGAGAGAACCTACTTACTCACCTTCTGAAGAAATTTGGTACACTGGAGAACCTAGAA
GAACTGTATTTGAATGACAACCCCAACCTGCATAGCCTTCCCTTTGAGCTGGCACTCTGC
AGCAAGCTTTCAATCATGAGTATTGAGAACTGTCCACTCAGTCACCTTCCACCTCAGATT
GTTGCTGGGGGCCTTCTTTCATCATTAGTTCTTAAAGATGCAGGGTCCATATCGTGCC
ATGGTCTGA
  
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Clone variation with respect to NM_007373.3
539 a=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007373 unedited AGTCAAATTTGTAACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCTCCTGACGG AACTCTAATGAATCATTGATTGACCAGCACTATTTTACCAGTTGGAATGAATGATCAGAA ATGGGCATAGTGCTTTTATAGATCCAACATGTAACAGATGGATGTTACTCCATGCTGATTAC TTCTTCAAGCCAGTACTTTTTTATTGATTGTGTAGGATCTTTGTCTCTTCATCTTTGAATTCA ATTACTGGAAAAATAAGGAGTTTATGTAGTTTTTGTCCAGGCTTGAGTCACCATGAGTA GTAGTTTAGGAAAAGAAAAAGACTCTAAAGAAAAAGATCCCAAAGTACCATCAGCCAAGG AAAGAGAAAAGGAGGCAAAAGCCTCTGGAGGTTTTGGGAAAAGAGAGCAAAAGAAAAAGAAC CTAAGACCAAAGGAAAGATGCCAAAGATGGAAGAAGGACTCCAGTGCTGCCCAACCGAG GGGTGGCATTTCAGTTGACAATACGATCAAACGGCCAAACCCAGCACCTGGGACTAGAA AAAAATCCAGCAATGCAGAGGTGATTAAGAGCTCAACANATGCCCGAAGAAGATTCAA TGCGTTTGGACTTATCCAAGAGATCTATACACATATTGCCATCATCAATCANAGAGTTTG ACTCATTAACAGAACTTTATTTATACAGTAACANATTGCAGTCCCCTCCAGCAGAAGTGG GGATGTTTAGTAAATCTCATGACTGGCTCTAAGTAAAATTCACTACCAGTTTGCCTG ACTCTCTTGATACTTGAAGAGCTGCGGATGCTTGATTTACNGCATATATACTGAAAGAAA TTCCTCAATGGTGATAGGCTGGATTCTCTACCATCTTAACCTCGCCTTAATCCTATAC TACTGGGGGAAAGGACATCAAACTTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007373 unedited GAACCGCGCCCGCATTCTANAGTCGAGTTTTTTTTTTTTTTTTTTAGAGCTGTAATAAAC AAATTCCTTTTATAAACAAAATTTTAACTGAAAAGCCACAGCAGATGGGGNGAAAAAAA AAAGAAAGGATATTACTTGGTAAATCCAGTGACATCTACAATAGTTTTACAGCACATTT AAGCATTCTAGGGTTTTATATCTTCACCTGCCTTCCATTTCTTAGTTGATCCTTATAAAA TCTCTATTACGAACATAGGTTTGACCTCAAACTAGTCATGAATTTGAGTGCCAGGAAA AGCAGAACACAGTCCAAATTTCTATCTTAATATCTTAGCCTTAATCAAAAATGGTTTT GTGTAAAAACACACGCCCACTAAATGGAAAAAACAACACACAAGCAGCAATATGT AATTATACAAAATAGCGATTAATTATATATGAAGTGTTTTTAGGATGACATCTAGAACG CACCTTGCTCTGAGACTCCTCAATAATCAAATTGACTTAGACCAACAATACTGCTAAGTA TAAAAAGCAGTGAAGCAAAGAAAACGCATCAAATAGTACATGCACATTTTACAGAACTTC CACTGAACCTCCCAATGGCTTCTATGCAATGTGCCTCTTTTCCATAACTGTTTTAACACC CCCCAAGAAAGGAAATATGAGATTAAAAGGAATGATCCTGAACCGAATTGTTAGAACCCA GTGCCCCATATGTGGGGACAAGCGCATTTATTTTAACTCCATTAGCCCAAGTGCGGAA AATCTTGCGCCTCAACCCAGAATTTCCCAAATTGAAAAATGTCCATGGCAGTCACAATA TACAACCTTCCACCCCGTTCAAAAACCTTGGACCATACTCCCTTCTATTTCAAAAA ACGCACTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_007373
Insert Size:	4200 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).
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_007373.2](#), [NP_031399.2](#)

RefSeq Size: 3823 bp

RefSeq ORF: 1749 bp

Locus ID: 8036

UniProt ID: [Q9UQ13](#)

Cytogenetics: 10q25.2

Domains: LRR, LRR_TYP, LRR_BAC

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that consists almost entirely of leucine-rich repeats, a domain implicated in protein-protein interactions. The protein may function as a scaffold linking RAS to downstream signal transducers in the RAS/ERK MAP kinase signaling cascade. Mutations in this gene have been associated with Noonan-like syndrome with loose anagen hair. [provided by RefSeq, May 2010]
 Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1, 3, and 4 all encode the same isoform (1).