

Product datasheet for **RC234375**

SHOC2 (NM_001269039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC2 (NM_001269039) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SHOC2
Synonyms:	NSLH1; SIAA0862; SOC2; SUR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC234375 representing NM_001269039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCTAAAGAAAAGATCCCAAAGTACCATCAGCCAAGGAAA
 GAGAAAAGGAGGCAAAAGCCTCTGGAGGTTTTGGGAAAGAGAGCAAGAAAAAGAACCTAAGACCAAAGG
 GAAAGATGCCAAAGATGGAAGAAGGACTCCAGTGCTGCCCAACCAAGGGTGGCATTTCAGTTGACAAT
 ACGATCAAACGGCCAAACCCAGCACCTGGGACTAGAAAAAATCCAGCAATGCAGAGGTGATTAAGAGC
 TCAACAAATGCCGGGAAGAGAATTCAATGCGTTTGGACTTATCCAAGAGATCTATACACATATTGCCATC
 ATCAATCAAAGAGTTGACTCAATTAACAGAACTTTATTTATACAGTAACAAATTCAGTCCCTCCAGCA
 GAGGTGGGATGTTTAGTAAATCTCATGACTGGCTCTAAGTGAAATTCAGTTACCAGTTTGCCTGACT
 CTCTTGATAACTGAAGAAGCTGCGGATGCTTGATTTACGGCATAATAAACTGAGAGAAATTCCTTCAGT
 GGTGTATAGGCTGGATTCTCTACCACTCTTTACCTTCGCTTTAATCGTATAACTACTGTGAAAAGGAC
 ATCAAAAACCTGTGCAAACTCAGCATGCTTAGCATTGAGAGAAACAAAATTAACAACACTACCTGTGAAA
 TTGGAAACCTGTCCAGTTTAAGTCGTCTTGGTCTGAGATATAACAGACTGTCAGCAATACCCAGATCATT
 AGCAAAATGCAGTGCAGTTGAAGAATTAATTTAGAGAACAAATACATTTCTACTTTACCAGAGAGTCTT
 TTATCAAGTCTTGTGAACTGAATAGTTTGACCTTAGCTAGAAATTGCTTCCAGTTGTATCCAGTGGGTG
 GTCCATCTCAGTTTTCTACCATCTATCCCTCAACATGGAACACAATCGAATCAACAAAATTCATTG
 AATTTTCTCCAGAGCAAAAGTATTAAGTAAGCTGAATATGAAGGACAATCAGTTAACATCACTTCCCTTG
 GATTTTGGAACTTGACCAAGTATGGTGAATTAAGTTAGCCACTAATCAGCTCACAAGATCCCTGAGG
 ATGTGCTGGTCTCGTTTCTCTTGAGGTTCTTATCTTCAACAATCTTCTAAAGAAGCTTCCCATGG
 TCTTGAAACCTTAGGAAGTTAAGAGAGTTGGATCTAGAAGAGAAACAAATGGAATCCTTGCCAAATGAA
 ATTGCATATCTTAAGGATTTACAGAAATTAAGTCTTGACAAACAACCAAGTTGACCACTCTTCCAGAGGCA
 TTGGTCACCTTACTAATCTCACACATCTGGGCCTTGAGAGAACCTACTTACTCACCTTCTGAAGAAAT
 TGGTACACTGGAGAACCTAGAAGAACTGTATTTGAATGACAACCCCAACCTGCATAGCCTTCCCTTTGAG
 CTGGCACTCTGCAGCAAGCTTTCAATCATGAGTATTGAGAACTGTCCACTCAGTCACCTTCCACCTCAGA
 TTGTTGCTGGGGGCCTTCTTTCATCATTAGTTCTTAAAGATGCAGGTCATATCGTGCCATGGTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234375 representing NM_001269039
 Red=Cloning site Green=Tags(s)

MSSSLGKEKDSKEKDPKVPSAKEREKEAKASGGFGKESKEKEPKTKGKDAKDGKKDSSAAQPGVAFSVDN
 TIKRPNPAPGTRKKSSNAEVIKELNKCREENSMRLDLSKRSIHILPSSIKELTQLTELYLYSNKLQSLPA
 EVGCLVNLMTLALSENSLTSLPDSLNLKKLRMLDLRHNKLREIPSVVYRLDSLTTLYLRFNRITTEKDD
 IKNL SKLSML SIRENKIKQLPAEIGNLSSL SRLGLRYNRLSAIPRSLAKCSALEELNLENNNISTLPESL
 LSSLVKLNSLTLARNCFQLYPVGGPSQFSTIYSLNMEHNRINKIPFGIFSRKVL SKLNMKDNQLTSLPL
 DFGTWTSMVELNLATNQLTKIPEDVSLVSLEVLILSNNLLKKLPHGLGNLRKLRELDLEENKLESLPNE
 IAYLKDLQKLVLTNNQLTTLPRGIGHLTNLTHLGLGENLLTHLPEEIGTLENLEELYLNDNPNLHSLPFE
 LALCSKLSIMSIENCPLSHLPPQIVAGGPSFIIQFLKMQGPYRAMV

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001269039

ORF Size: 1608 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: [NM_001269039.2](#)

RefSeq Size: 3711 bp

RefSeq ORF: 1611 bp

Locus ID: 8036

UniProt ID: [Q9UQ13](#)

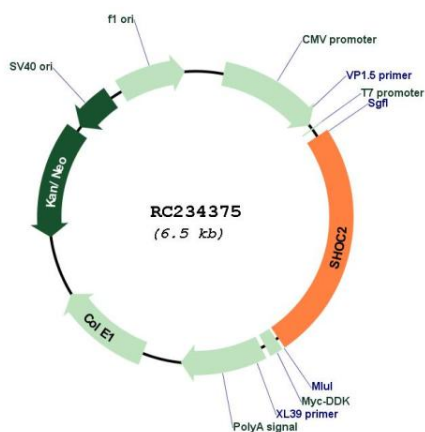
Cytogenetics: 10q25.2

Protein Families: Druggable Genome

MW: 60.2 kDa

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]

Product images:



Circular map for RC234375