

Product datasheet for **RG234375**

SHOC2 (NM_001269039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC2 (NM_001269039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SHOC2
Synonyms:	NSLH1; SIAA0862; SOC2; SUR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234375 representing NM_001269039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCTAAAGAAAAGATCCCAAAGTACCATCAGCCAAGGAAA
 GAGAAAAGGAGGCAAAAGCCTCTGGAGGTTTTGGGAAAGAGAGCAAGAAAAAGAACCTAAGACCAAAGG
 GAAAGATGCCAAAGATGGAAGAAGGACTCCAGTGCTGCCCAACCAAGGGTGGCATTTCAGTTGACAAT
 ACGATCAAACGGCCAAACCCAGCACCTGGGACTAGAAAAAATCCAGCAATGCAGAGGTGATTAAAGAGC
 TCAACAAATGCCGGGAAGAGAATTCAATGCGTTTGGACTTATCCAAGAGATCTATACACATATTGCCATC
 ATCAATCAAAGAGTTGACTCAATTAACAGAACTTTATTTATACAGTAACAAATTCAGTCCCTCCAGCA
 GAGGTGGGATGTTTAGTAAATCTCATGACTGGCTCTAAGTGAAATTCAGTTACCAGTTTGCCTGACT
 CTCTTGATAACTGAAGAAGCTGCGGATGCTTGATTTACGGCATAATAAACTGAGAGAAATTCCTTCAGT
 GGTGTATAGGCTGGATTCTCTACCACTCTTTACCTTCGCTTTAATCGTATAACTACTGTGAAAAGGAC
 ATCAAAAACCTTGCAAACTCAGCATGCTTAGCATTGAGAGAACAAAATTAACAACACTACCTGCTGAAA
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 AGCAAAATGCAGTGCAGTTGAAGAATTAATTTAGAGAACAAATACATTTCTACTTTACCAGAGAGTCTT
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 GATTTTGGAACTTGACCAGTATGGTGAATTAAGTTAGCCACTAATCAGCTCACAAAGATCCCTGAGG
 ATGTGTCTGGTCTCGTTTCTCTTGAGGTTCTTATCTTCAACAATCTTCTAAAGAAGCTTCCCATGG
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 TTGGTCACCTTACTAATCTCACACATCTGGGCCTTGAGAGAACCTACTTACTCACCTTCTGAAGAAAT
 TGGTACACTGGAGAACCTAGAAGAACTGTATTTGAATGACAACCCCAACCTGCATAGCCTTCCCTTTGAG
 CTGGCACTCTGCAGCAAGCTTTCAATCATGAGTATTGAGAACTGTCCACTCAGTCACCTTCCACCTCAGA
 TTGTTGCTGGGGGCCTTCTTTCATCATTAGTTCTTAAAGATGCAGGTCCATATCGTGCCATGGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

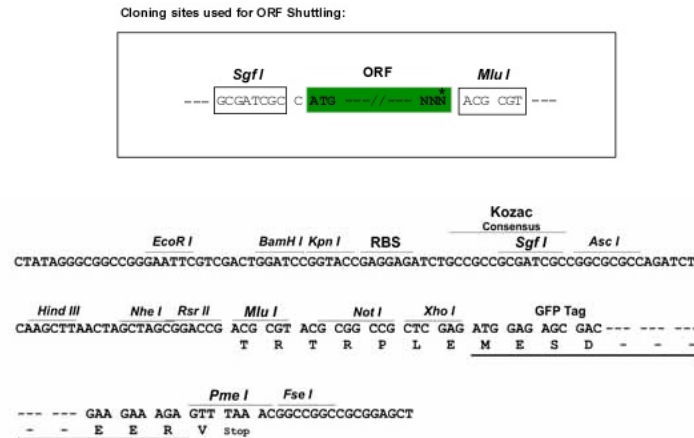
>RG234375 representing NM_001269039
 Red=Cloning site Green=Tags(s)

MSSSLGKEKDSKEKDPKVPKSAKEREKEAKASGGFGKESKEKEPKTKGKDAKDGKKDSSAAQPGVAFSVDN
 TIKRPNPAPGTRKKSSNAEVIKELNKCREENSMRLDLKRSIHILPSSIKELTQTELYLYSNKLQSLPA
 EVGCLVNLMTLALSENSLTSLPDLNLKKRLMLDLRHNKLRREIPSVVYRLDSLTTLYLRFNRITTVKED
 IKNLKLSMLSIRENKIKQLPAEIGNLSSLSRLGLRYNRLSAIPRSLAKCSALEELNLENNNIISTLPESL
 LSSLVKLNSLTLARNCFQLYPVGGPSQFSTIYSLNMEHNRINKIPFGIFSRKVLKLNMKDNQTLPL
 DFGTWSMVELNLATNQLTKIPEDVSGLVSEVLILSNNLLKKLPHGLGNLRKLRLEDLEENKLESLPNE
 IAYLKDLQKLVLTNNQLTTLPRGIGHLTNLTHLGLGENLLTHLPEEIGTLENLEELYLNDNPNLHSLPFE
 LALCSKLSIMSIENCPLSHLPPQIVAGGPSFIIQFLKMQGPYRAMV

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_001269039.2](#)

RefSeq Size: 3711 bp

RefSeq ORF: 1611 bp

Locus ID: 8036

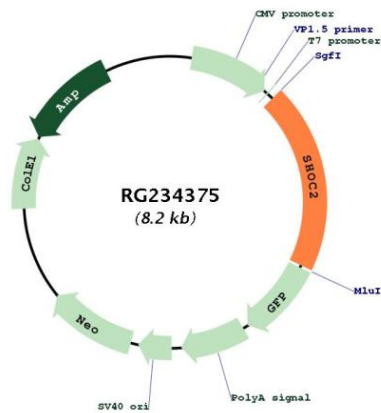
UniProt ID: [Q9UQ13](#)

Cytogenetics: 10q25.2

Protein Families: Druggable Genome

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 RG234375