

Product datasheet for **RG208396**

SHOC2 (NM_007373) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC2 (NM_007373) 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)



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ORF Nucleotide Sequence:

>RG208396 representing NM_007373
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCTAAAGAAAAGATCCCAAAGTACCATCAGCCAAGGAAA
 GAGAAAAGGAGGCAAAAGCCTCTGGAGGTTTTGGGAAAGAGAGCAAAAGAAAAGAACCTAAGACCAAAGG
 GAAAGATGCCAAAGATGGAAAGAAGGACTCCAGTCTGCCAACCCAGGGTGGCATTTCAGTTGACAAAT
 ACGATCAAACGGCCAAACCCAGCACCTGGGACTAGAAAAAATCCAGCAATGCAGAGGTGATTAAGAGC
 TCAACAAATGCCGGGAAGAGAATCAATGCGTTTGGACTTATCCAAGAGATCTATACACATATTGCCATC
 ATCAATCAAAGAGTTGACTCAATTAACAGAACTTTATTTATACAGTAACAAATTCAGTCCCTCCAGCA
 GAGGTGGGATGTTTAGTAAATCTCATGACTGGCTCTAAGTGAATTCAGTACCAGTTTGCCTGACT
 CTCTTGATAACTGAAGAAGCTGCGGATGCTTGATTTACGGCATAATAAACTGAGAGAAATTCCTTCAGT
 GGTGTATAGGCTGGATTCTCTCACCCTCTTTACCTTCGTTTAAATCGTATAACTACTGTGAAAAGGAC
 ATCAAAAACCTTGCAAACTCAGCATGCTTAGCATTGAGAGAACAAAATTAACAACACTACCTGCTGAAA
 TTGGTGAATTATGTAACCTCATTACGCTGGATGTAGCTCACAAATCAACTGAACACCTTCCAAAGGAGAT
 TGGAACTGTACACAGATAACCAACCTTGACTTGCAGCACAATGAACTGTAGACCTCCAGATACTATA
 GGAAACCTGTCCAGTTTAAAGTCGCTTGGTCTGAGATATAACAGACTGTCAGCAATACCCAGATCATTAG
 CAAAATGCAGTGCCTTGAAGAATTAATTTAGAGAACAATAACATTTCTACTTTACCAGAGAGTCTTTT
 ATCAAGTCTTGAACTGAATAGTTTGACCTTAGCTAGAAATGCTTCCAGTTGATCCAGTGGGTGGT
 CCATCTCAGTTTTCTACCATCTATTCCCTCAACATGGAACACAATCGAATCAACAAAATTCATTTGGAA
 TTTTCTCCAGAGCAAAAGTATTAAGTAAGCTGAATATGAAGGACAATCAGTTAACATCACTCCCTTGGAA
 TTTTGGAACTTGACCAGTATGGTAGAATTTGAATTTAGCCACTAATCAGCTCACAAAGATCCCTGAGGAT
 GTGCTGGTCTCGTTTCTCTGAGGTTCTTATCTTATCAAACAATCTTCTAAAGAAGCTTCCCCATGGTC
 TTGAAACCTTAGGAAGTTAAGAGAGTTGGATCTAGAAGAGAACAATTTGGAATCCTTGCCAAATGAAAT
 TGCATATCTTAAGGATTTACAGAAATAGTCTTGACAAACAACCAGTTGACCCTCTCCAGAGGCATT
 GGTACCTTACTAATCTCACACATCTGGCCTTGGAGAGAACCTACTTACTCACCTTCTGAAGAAATG
 GTACACTGGAGAACCTAGAAGACTGTATTTGAATGACAACCCCAACCTGCATAGCCTCCCTTTGAGCT
 GGCCTCTGCAGCAAGCTTTCAATCATGAGTATTGAGAACTGTCCACTCAGTCACCTTCCACCTCAGATT
 GTTGCTGGGGGCTTCTTTCATCATTAGTTCTTAAAGATGCAGGGTCCATATCGTGCCATGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208396 representing NM_007373
 Red=Cloning site Green=Tags(s)

MSSSLGKEKDSKEKDPKVPKAKEREKEKASGGFGKESKEKEPKTKGKDAKDGKKDSSAAQPGVAFSVDN
 TIKRPNPAPGTRKSSNAEVIKELNKRENSMRLDL SKRSIHILPSSIKELTQLTELYLYSNKLQSLPA
 EVGCLVNLMTLALSENSLTSLPDSLNLKLRMLDLRHNKLRREIPSVVYRLDSLTTLYLRFNRITVEKD
 IKNL SKLSML SIRENKIKQLPAEIGELCNLITLDVAHNQLEHLPKEIGNCTQITNLDLQHNELLDLPDTI
 GNLSL SLSRLGLRYNRLSAIPRSLAKCSALEELNLENNNISTLPESLLSSLVKLNSLTLARNCFQLYPVG
 PSQFSTIYSLNMEHNRINKIPFGIFSRKVL SKLNMKDNQLTSLPLDFGTWTSMVELNLTNQLTKIPED
 VSGLVSLVLI LSNLLKKLPHGLGNLRKLRLELDLEENKLES LPNEIAYLKDQLVLTNNQLTTLPRGI
 GHLTNLTHLGLGENLLTHLPEEIGTLENLEELYLNDPNLHSLPFELALCSKLSIMSIENCPLSHLPPQI
 VAGGPFIIQFLKMQGPYRAMV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_007373

ORF Size: 1746 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_007373.4](#)

RefSeq Size: 3823 bp

RefSeq ORF: 1749 bp

Locus ID: 8036

UniProt ID: [Q9UQ13](#)

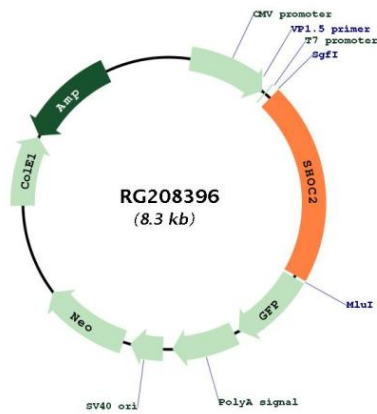
Cytogenetics: 10q25.2

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]

Product images:



Circular map for RG208396