

Product datasheet for **MC218734**

Shoc2 (NM_019658) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Shoc2
Synonyms:	AU017287; mKIAA0862; Sur8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >MC218734 representing NM_019658
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCTAAAGAGAAAGACCCAAAGTACCGTCTGCCAAGGAA
 GAGAAAAGGAGTCAAAAGCCTCAGGAGGCTTTGGGAAAGAGAGCAAGAAAAGGAACCTAAAGCCAAAGG
 GAAAGACGCCAAAGATGAAAGAAGGAGTCCAGCGCTGCCAGCCAGGTGTGGCTTTTTTCAGTCGACAAT
 ACCATCAAAACGGCCAAATCCAGCACCCGGCACTAGAAAAAGTCCAGCAATGCTGAGGTCTTAAGGAGC
 TTAACAAATGCCGGGAGGAGAACTCAATGCGGTTGGACTTGCCAAGAGGTCTATACATATACTGCCACC
 ATCAGTCAAAGAGTTGACTCAACTCACAGAACTTTATTTATACAGTAACAAATTGCAGTCCCTCCAGCA
 GAGGTGGGCTGTCTAGTCAATCTCATGACGCTGGCTCTCAGTGAGAATCACTCACCAGTTTGCCTGACT
 CTCTTGATAACTGAAGAAGCTGCGGATGCTTATTTACGGCATAATAAAGTGAAGAAATTCCTTCAGT
 GGTGTATAGGCTAGACTCTCTCACCCTCTCTATCTTCGCTTTAATCGCATAACTACTGTGAAAAAGGAC
 ATCAAAAACCTGCCGAAGCTCAGCATGCTCAGCATCCGAGAGAAACAAATCAAGCAGCTGCCTGCTGAAA
 TTGGTGAATTATGTAACCTCATTACCTGGATGTAGCTCACAATCAACTGAACACCTTCCAAGGAGAT
 TGGAACTGCACACAGATAACCAACCTTGACTTGCAGCACAATGACCTACTGGACCTCCAGATACAATA
 GGAAACCTGTCCAGTTTAAATCGCCTTGGCCTGAGATACAATAGATTGTCAGCAATACCCAGATCATTAG
 CAAAATGCAGTGCACTTGAGGAGTTAAATTTAGAGAACAATAACATTTCTACTCTACCAGAGAGTCTTTT
 ATCCAGTCTTGTAATAATTGAATAGCTTGACCTTAGCTAGAAATTGCTTCCAGTTATATCCAGTGGGAGGT
 CCATCTCAGTTTTCCACCATTTATTCCTCAACATGGAACACAATCGAATCAACAAAATCCATTTGGAA
 TTTTTCCAGAGCTAAAGTGTTAAGTAAGCTGAATATGAAGGACAATCAGTTAACATCACTTCCTTTGGA
 TTTTGGAACTTGGACCAGTATGGTAGAATTGAATTTAGCGACTAATCAGCTCACAAAGATCCAGAGGAT
 GTGTCTGGTCTCGTTTCCTTGAGGTTCTGATCTTATCGAACAACCTTCTAAAGAAGCTGCCCCACGGCC
 TTGGGAACCTCAGAAAGCTACGAGAGCTGGACCTGGAGGAGAACAAGCTGGAGTCTTGCCCAATGAGAT
 CGCGTATCTCAAGGATCTGCAGAAATTAGTCTTGACAACAACCAAGTTGAGCAGCTTCCCAGAGGCATC
 GGTCACCTTACCAACCTCACGCACCTTGGTCTTGAGAGAACTGCTCACTCACCCTTCTGAGGAAATCG
 GTACACTGGAACCTAGAGAAGTGTATTTGAACGACAACCCCAACCTTCACAGCCTCCCTTTGAGCT
 TGCTCTCTGCAGCAAGCTGTCAATCATGAGTATTGAGAAGTGTCCACTCAGTCACCTCCACCTCAAATT
 GTTGCTGGAGGCTTCGTTTCATTATTCAGTCTTAAAGATGCAGGGTCCATATCGTGCCATGGT**CGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_019658

Insert Size: 1749 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_019658.6, NP_062632.2</u>
RefSeq Size:	4116 bp
RefSeq ORF:	1749 bp
Locus ID:	56392
UniProt ID:	<u>O88520</u>
Cytogenetics:	19 D2
Gene Summary:	Regulatory subunit of protein phosphatase 1 (PPIc) that acts as a M-Ras/MRAS effector and participates in MAPK pathway activation. Upon M-Ras/MRAS activation, targets PPIc to specifically dephosphorylate the 'Ser-259' inhibitory site of RAF1 kinase and stimulate RAF1 activity at specialized signaling complexes.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.