

Product datasheet for **RN205028**

Shoc2 (NM_001013155) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shoc2 (NM_001013155) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Shoc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN205028 representing NM_001013155
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCGAAAGAGAAAGATCCCAAAGTACCATCTGCCAAGGAAA
 GAGAAAAGGAGGCAAAAGCCTCTGGAGGTTTTGGGAAAGAAAGCAAGAAAAAGAACCTAAAACCAAAGG
 GAAAGATGCCAAAGATGGAAGAAGGAGTCCAGTCTGCCAACCTGGTGTGGCTTTTTCACTCGACAAT
 ACCATCAAACGGCCTAATCCAGCACTTGGGACTAGAAAGAAATCCAGCAATGCCGAGGTAAGGAGC
 TTAACAAATGCCGGGAGGAGAACTCAATGCGCTTGGACTTATCCAAGCGGTCTATACATATACTGCCGCC
 GTCAGTCAAAGAGTTGACACAACCTACGGAACCTTATTTATACAGTAACAAATTCAGTCCCTCCAGCA
 GAGGTGGGCTGTCTAGTCAATCTTATGACGCTGGCTCTCAGTGAGAATTCAGTACCAGTTTGCCTGACT
 CTCTCGATAACTGAAGAAGCTGCGGATGCTTGATTTACGGCATAATAAACTGAGAGAAATCCCTTCGGT
 GGTGTACAGGCTAGACTCCCTGACTACTCTACCTTCGCTTTAACCGCATAACCGCTGTGGAGAAGGAC
 GTCAGAAACCTGCCGAGGCTCAGCACGCTTAGCATCCGAGAGAACAAATCAAGCAGCTCCCTGCCGAGA
 TCGGTGAAGTGTGAACCTCATTACCCTGGATGTAGCTACAATCAACTGAACACCTTCCGAAGGAGAT
 TGGAACTGCACCCAGATAACCAACCTGGACCTGCAGCACAATGAGCTGTAGACCTCCAGACACAATA
 GGAAACCTGTCCAGTTTAAATCGCTTGGCCTGAGGTACAATAGATTGTCAGCAATACCCAGATCATTAG
 CAAATGCAGCGCACTTGAGGAGCTAAATCTAGAGAACAATAACATTTCTACTCTGCCAGAGAGTCTTTT
 ATCCAGTCTTGAAAATTGAATAGCTTGACCTTAGCTAGAAATTGCTTCCAGTTGTACCCAGTGGGAGGC
 CCATCTCAGTTTTCCACCATTATTCCTCAACATGGAACACAATCGAATCAACAAAATCCCATTTGGAA
 TTTTTCCAGAGCTAAAGTGCTGAGTAAGCTGAATATGAAGGACAATCAGTTAACATCACTTCCTTTGGA
 TTTTGGAACTTGACCAGTATGGTAGAATTGAATTTAGCGACCAATCAGCTCACAAAGATCCCGGAGGAC
 GTGTCTGGTCTTGTCTTCTGAGGTTCTAATATTATCGAACAATCTTCTAAAGAAGCTTCCCCATGGTC
 TTGAAACCTTAGAAAGTTACGAGAATTAGACCTGGAGGAGAACAAGCTGGAGTCCTTGCCCAATGAGAT
 TGCTTATCTTAAGGATTTACAGAAATTAGTCTTGACAAACAACAGTTGACCACTCTCCCGAGGCATC
 GGTCACCTTACCAACCTCACACACCTTGGTCTCGGAGAGAACCTTCTCACTCACCTTCTGAGGAAATTG
 GTACACTGGAAAACCTAGAGGAGCTGACTTGAATGACAACCCCAACCTTACAGCCTCCCTTCGAGCT
 TGCCCTCTGCAGCAAGCTGTCAATCATGAGTATTGAGAACTGTCCACTCAGTCACTCCACCTCAAATT
 GTTGCTGGAGGCCTTCATTATTATTCAGTTCTTAAAGATGCAGGGTCCGTATCGTGCCATGGT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013155

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.

RefSeq: [NM_001013155.1](#), [NP_001013173.1](#)

RefSeq Size: 2193 bp

RefSeq ORF: 1749 bp

Locus ID: 309548

UniProt ID: [Q6AYI5](#)

Cytogenetics: 1q55

Gene Summary: Regulatory subunit of protein phosphatase 1 (PP1c) that acts as a M-Ras/MRAS effector and participates in MAPK pathway activation. Upon M-Ras/MRAS activation, targets PP1c to specifically dephosphorylate the 'Ser-259' inhibitory site of RAF1 kinase and stimulate RAF1 activity at specialized signaling complexes.[UniProtKB/Swiss-Prot Function]