

Product datasheet for **MR208396**

Shoc2 (BC026364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shoc2 (BC026364) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shoc2
Synonyms:	Sur8, Sur-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208396 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTAGTAGTTTAGGAAAAGAAAAGACTCTAAAGAGAAAGACCCCAAAGTACCGTCTGCCAAGGAAA
 GAGAAAAGGAGTCAAAAGCCTCAGGAGGCTTTGGGAAAGAGAGCAAGAAAAGGAACCTAAAGCCAAAGG
 GAGAGACGCCAAAGATGGAAGAAGGAGTCCAGCGCTGCCAGCCAGGTGTGGCTTTTTCAGTCGACAAT
 ACCATCAAACGGCCAAATCCAGCACCCGGCACTAGAAAAAAGTCCAGCAATGCTGAGGTCTTAAGGAGC
 TTAACAAATGCCGGGAGGAGAACTCAATGCGGTTGGACTTGCCAAGAGGTCTATACATATACTGCCACC
 ATCAGTCAAAGAGTTGACTCAACTCACAGAACTTTATTTATACAGTAACAAATTCGAGTCCCTCCAGCA
 GAGGTGGGCTGTCTAGTCAATCTCATGACGCTGGCTCTCAGTGAGAATTCAGTACCAGTTTGCCTGACT
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 TTGGTGAATTATGTAACCTCATTACCCTGGATGTAGCTACAATCAACTGAACACCTTCCAAAGGAGAT
 TGGAACTGCACACAGATAACCAACCTTGACTTGACGACAATGACCTACTGGATCTCCAGATACAATA
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 CCATCTCAGTTTTCCACCATTATTCCTCAACATGGAACACAATCGAATCAACAAAATCCCATTTGGAA
 TTTTTCAGAGCTAAAGTGTTAAGTAAGCTGAATATGAAGGACAATCAGTTAACACTCACTTCCTTTGGA
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 GTGTCTGGTCTCGTTTCCCTTGAGGTTCTCATCTTATCGAACAACCTTCTAAAGAAGCTGCCCCACGGCC
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 GGTCACCTTACCAACCTCACGCACCTCGGTCTTGAGAGAACCTGCTCACTCACCTTCTGAGGAAATCG
 GTAGGAACCTGAGGGCGCGGCGCACTGCTGGC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence:

>MR208396 protein sequence
 Red=Cloning site Green=Tags(s)

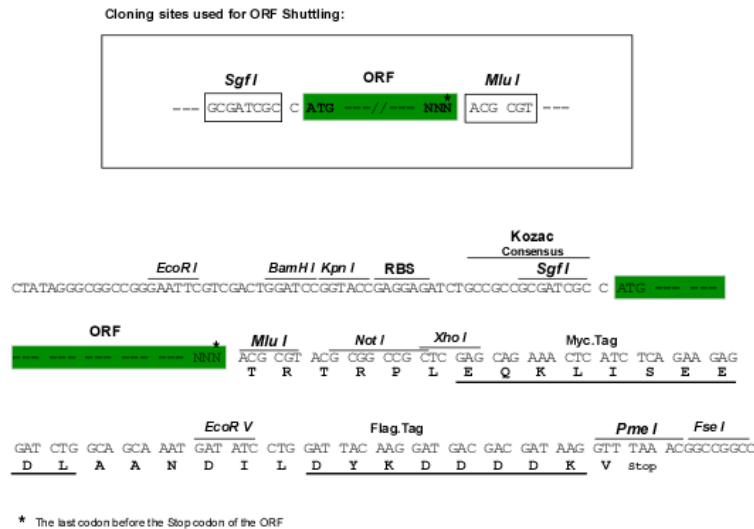
MSSSLGKEKDSKEKDPKVPSAKEREKESKASGGFGKESKEKEPKAKGRDAKDGGKESSAAQPGVAFSVDN
 TIKRPNPAPGTRKKSSNAEVIKELNKCREENSMRLDLKRSIHILPPSVKELTQLTELYLYSNKLQSLPA
 EVGCLVNLMTLALSENSLTSLPDSLNLKKLRMLDLRHNKLREIPSVVYRLDSLTTLYLRFNRITTVKED
 IKNLPKLSMLSIRENKIKQLPAEIGELCNLITLDAHNQLEHLPKEIGNCTQITNLDLQHNDLLDLPDTI
 GNLSLNLRLGLRYNRLSAIPRSLAKCSALEELNLENNISTLPESLLSSLVKLNSLTLARNCFQLYPVGG
 PSQFSTIYSLNMEHNRINKIPFGIFSRKVL SKLNMKDNLQSLPLDFGTWTSMVELNLATNQLTKIPED
 VSGLVSLVLILSNLLKKLPHGLGNLRKLRELDLEENKLESLPNEIAYLKDLQLVL TNNQLSTLPRGI
 GHLTNLTHLGLGENLLTHLPEEIGRNLRARRTAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC026364

ORF Size: 1572 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: [BC026364](#), [AAH26364](#)

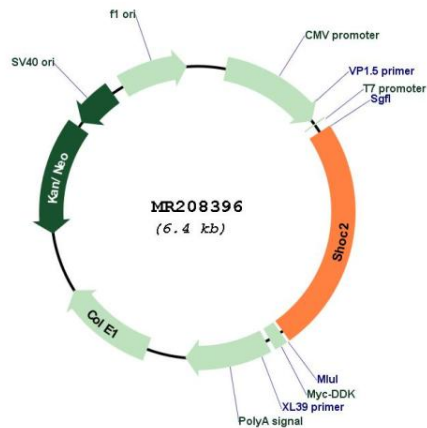
RefSeq Size: 2025 bp

RefSeq ORF: 1574 bp

Locus ID: 56392

Cytogenetics:	19 D2
MW:	58.5 kDa
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]

Product images:



Circular map for MR208396