

Product datasheet for RC212383

SHOC1 (NM_001080551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC1 (NM_001080551) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SHOC1
Synonyms:	C9orf84; MZIP2; ZIP2; ZIP2H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212383 representing NM_001080551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGAGACTCTGGGGATGAATTGGAGATATTAAGAGGTAAAATGATGCAGAGAAGACCAAGGTCAG
CAGAAGTCAAATACTTCTATTTCTTTAAAATTTTGCTTAGGCTACGCCTGGCTATTTTGAAGTATTTATT
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AGTGAAGTGTCAAGAGAACTAGAAGATACAATATGTTTAAATGAGCCGTCAGTTTCTTATTGAG
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AAATATAAGACTTGCACCTCAAAGACTGAAGTCACAAACAGTGATGAAAAACATGATAAAGAAGCATGTT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC212383 representing NM_001080551
 Red=Cloning site Green=Tags(s)

MSETLGDELEILRGKMMQRRPRSAEVKYFYFFKILLRLRLAILKYL FIDDKGILFVSSRKHLP LPTLLS
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 YEF LIPPSLKPEIDIPSLSELKELNVPVEIINYVDEKEKLFERDLTNKHGIEDIGDIKFSSTEILTIQS
 QSEPEECSKPGLEEMPLTPLFLTQCHSSVNSLRTELQTFPLSPVCKINLLTAEESANEYMMWQLERCRS
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 FSVVVEYNYVEDSCWTKHCKELNIPYMAFKVILPDTVLERSTLLDRFGGFLLEIQIPYVFFASEGLLNTP
 DILQLLESNYNISLVERGCSESLKLFSGSECYVVVTIDEHTAILQDLEELNYEKASDNIIMRLMALSLQ
 YRYCWII LYTKETLNSEYLLTEKTLHHLALIYAALVSFGLNSEELDVKLI IAPGVEATALIIRQIADHSL
 MTKSRDPHEWLDKSWLKVSPSEEMYLDFPCINPLVAQLMLNKGPSLHWILLATL CQLQELLPEVPEKV
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 RLRFF

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Restriction Sites:

Sgfl-MluI

Cloning Scheme:

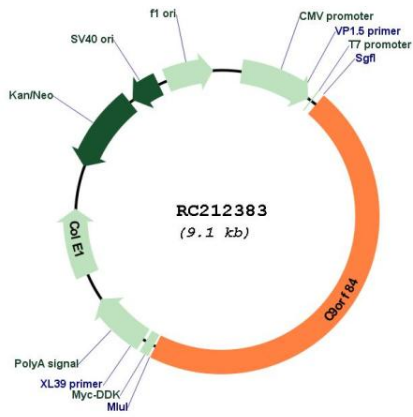


ACCN: NM_001080551

ORF Size: 4215 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:	<ol style="list-style-type: none">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_001080551.3
RefSeq Size:	4630 bp
RefSeq ORF:	4218 bp
Locus ID:	158401
Cytogenetics:	9q31.3
MW:	160.8 kDa
Gene Summary:	ATPase required during meiosis for the formation of crossover recombination intermediates (By similarity). Binds DNA: preferentially binds to single-stranded DNA and DNA branched structures (PubMed:29742103). Does not show nuclease activity in vitro, but shows ATPase activity, which is stimulated by the presence of single-stranded DNA (PubMed:29742103). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC212383