

Product datasheet for SC315883

SHOC1 (NM_001080551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC1 (NM_001080551) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHOC1
Synonyms:	C9orf84; MZIP2; ZIP2; ZIP2H
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001080551, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGAGACTCTGGGGATGAATTGGAGATATTAAGAGGTAAAATGATGCAGAGAAGA
CCAAGGTCAGCAGAAGTCAAATACTTCTATTTCTTTAAAATTTTGCTTAGGCTACGCCTG
GCTATTTTGAAGTATTTATTTATTGATGATAAAGGAATACTTTTTGTAAGTAGTAGAAAA
CACCTACCAACTTTGCCTACTCTCTTGAGTAGACTAAACTGTTTTTGGTAAAGGATCCT
CTTTTAGATTTCAAAGGACAGATCTTCACAGAAGCTAATTTTTCCAGGGAATGTTTCTCT
CTTCAAGAACTTTGGAAGCTTTTGTGAAAGAAGATTTTTGTATGGATAAAGTGAACTTT
TGTCAGAGAACTAGAGATACAATATGTTTAAATGAGCCGTCAAGTTTTCTTATTGAG
TATGAATTCCTTAATACCTCCAAGCCTCAAACCAGAAATTGATATTCCATCACTCTCAGAA
CTGAAGGAGTTATTAACCCAGTGCCAGAAATAATAAACTATGTAGATGAAAAGGAAAAAG
CTTTTTGAAAGAGATCTTACTAACAAGCATGGAATTGAGGATATCGGGGATATAAAATTC
AGCTCCACAGAGATTTTGACCATTCAAAGCCAGAGTGAACCAGAAAGTGCAGTAAACCA
GGAGAGTTAGAAATGCCACTAACTCCTCTATTCCTAACATGCCAACATTCTTCAGTGAAT
TCATTACGTACAGAACTTCAGACATTTCCATTATCTCCGTTTGTAAAATTAATTTGCTT
ACTGCTGAAGAATCAGCTAATGAATACTACATGATGTGGCAATTAGAAAGATGTAGAAGC
CCTTTGAACCCATTTTGTCTACAGTGCCAAGAATTCAAGAGCCCCACAGCCAATATTCA
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CTGAATACATATTTATGTCATGATAATTTGTCTTCTAATGACACTAAAATTGAGATATTT
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TCTCTGGCAAAAGAAGTACCAGATCTATGTTTTCTGATGACTATTTCTCTGATAAAGGA
GCAGCAAAAGAAGAAAAACCAAGAATGACCAAGAACCAGTAAACAGAATAATCCAAAAG
AAAGAAAATAACGATCACTTTGAACTTGACTGCACAGGACCATCTATTAATCACCTTCC
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AGTCTATTGTTTCATTAATAAAACCCTGGAGGAAATAAATCAGGAAAGGGGAACAGAT
AGTGTCATTGAAATTCAGCGTCAGATAGCCAGTGCCAAGCATTTTGCCTCCTCGAAGCA
GCAGCTTCTCCTATCTTAACCACTTGATCCTTGTGTACCTCCCTACTGCTAATTGG
  
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AAATTTGCCACTGTTATTTTTGACCAACAAGGTTTCTCTTAAAGGAACAAGAAAAAGTA
 GTAAGTGATGCTGTTTCGCCAAGGTACAATTGATGAAAGAGAAATGACTTTCAAGCATGCC
 GCTCTCTTACATCTTCTGGTAACAATTAGAGATGTCCTTTTAAACATGCAGCTTGGACACA
 GCATTGGGATATTTGTGCAAGGCAAAAGATATCTACAACAGCATTTTAGGCCCTATTTG
 GGTGACATTTGGAGACAGCTGGAGATTGTACAGTTTATTAGGGGGAAAAAGCCTGAAACC
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 ATTCTTAACAAAAATAGAAGGTTTAACTGACTGTCCTTCATTCAAATGAAAGAAAAAGAT
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 CTTTTGGAATTCAGATTCCATATGTGTTTTTGCATCTGAAGGACTTCTAATACTCCA
 GACATACTTCAGCTGCTAGAATCCAATAACATCTCACTAGTAGAGAGAGGCTGCAGT
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 ATTTATGCAGCTTTGGTTTCATTTGGGCTAAACTCTGAAGAACTGGATGTAAAGCTTATA
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 ATGACCTCAAAGAGAGATCCTCATGAATGGTTGGATAAATCCTGGCTTAAAGTTTCACCA
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 GAACTCCTACCTGAAGTCCCAGAAAAAGTGTTAAAGCATTTTTGTAGCATCACTCCCTA
 TTCAAGATTGGTTCTTCTCCATAACAAAATCACCGCAAATTTCTGCACCTCAGGAAAAAT
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 CAAGAACATAATGAATATTATCAGTATTTAGGATTAGGAGAGACAGTGCAGGAAGACAAA
 ACCACCATTTTGAATGACAACTCTTCCATTATGGAACTAAAAGAAATCTCAAGTTTTTTA
 CCACCTGTGACTTCATACAATCAGACCAGCTACTGAAAGACTCCAGCTGTAATCTAAT
 ATAGGGCAGAATACTCCTTTTCTAATTAATATAGAATCAAGGAGACCGGCTTATAACTCC
 TTTCTAAACCACAGTGATTCAGAGTCAGATGTCTTTTCTTGGGCTAACACAAATGAAC
 TGTGAAACTATAAAATCACCAACTGACACTCAGAAGAGAGTGTCAGTTGTCCCCCGTTTT
 ATAAATTTCTCAGAAAAGGAGAACACATGAAGCAAAAGGTTTCATAATAAAGATGTATCG
 GACCCTATCTTTTCACTAGAGGGCACTCAATCTCCTCTTCATTGGAACTTTAAAGAAAAAT
 ATATGGGAACAAGAGAATCACCGTTCAACTTACAATATGGTGCACAGCAGACTGCATGT
 AACAAATTGTACTCTCAGAAAGGTAATTTATTCATCTGATCAGCAAAAATGTCTATCAGAT
 GAGTCTGAAGGCCTCACATGTGAAAGTTCAAAAGATGAGACTTTCTGGAGAGAATTACCA
 TCTGTCCCCAGTTTGGATTTATTTCTGTGCTTCTGATTCTAATGCAAAATCAAAAAGAAATTC
 AACAGCCTTTATTTCTACCAAAGAGCTGGAAAAAGTTTAGGACAGAAAAGGCACCATGAA
 TCTTCATTTAACTCAGGAGACAAGGAATCATTAAACAGGTTTTATGTGCTCACAACATACCA
 CAATTCAAAAACGACGCTAGCATATGAAAAAGTCCCTGGTAGAGTTGATGGGCAGACT
 CGGCTGAGGTTTTTT

Restriction Sites:

Please inquire

ACCN:

NM_001080551

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001080551.1</u> , <u>NP_001074020.1</u>
RefSeq Size:	4630 bp
RefSeq ORF:	4218 bp
Locus ID:	158401
Cytogenetics:	9q31.3
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] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct N-terminus, compared to isoform 1.