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Product datasheet for SC306844

SHOC1 (NM_173521) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOC1 (NM_173521) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHOC1
Synonyms:	C9orf84; MZIP2; ZIP2; ZIP2H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC306844 representing NM_173521.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACAGATACCTCAGTCTTGGACCAATGGAAAGCAAGTTTCTTTGTGGAGGATTTCCTTGAGAAAAAA
ACAATTACAAGAATGGTGACCCAGATTAATTGTGAATTTGAGGAAGTTGTTCCAAGTTCAAATCCAGAC
TCCCAAATTGAAGTAGAGGAGGTCAGTTTATACACCCACATGGACTACAATGAAGTCTTTACCCCTGTC
AGTTGTTTAGAAAAATGTTCAGCACTTCAAAACCAGAACCAAGATTTATTTATTGATGATAAAGGAATA
CTTTTTGTAAGTAGTAGAAAACACCTACCAACTTTGCCTACTCTCTTGAGTAGACTAAAACTGTTTTTG
GTAAAGGATCCTCTTTTAGATTTCAAAGGACAGATCTTCACAGAAGCTAATTTTTCCAGGGAATGTTTC
TCTCTTCAAGAAACTTTGGAAGCTTTTGTGAAAGAAGATTTTTGTATGGATAAAGTGAACTTTTGTCAA
GAGAAACTAGAAGATACAATATGTTTAAATGAGCCGTCAAGTTTTCTTATTGAGTATGAATTCTTAATA
CCTCCAAGCCTCAAACCAGAAATTGATATTCCATCACTCTCAGAACTGAAGGAGTTATTAAACCCAGTG
CCAGAAATAATAAACTATGTAGATGAAAAGGAAAAGCTTTTTGAAAGAGATCTTACTAACAAGCATGGA
ATTGAGGATATCGGGGATATAAAATTCAGCTCCACAGAGATTTTGACCATTCAAAGCCAGAGTGAACCA
GAAGAGTGCAGTAAACCAGGAGAGTTAGAAATGCCACTAACTCCTCTATTCCTAACATGCCAACATTCT
TCAGTGAATTCATTACGTACAGAACTTCAGACATTTCCATTATCTCCGGTTTGTAAAATTAATTTGCTT
ACTGCTGAAGAATCAGCTAATGAATACTACATGATGTGGCAATTAGAAAGATGTAGAAGCCCTTTGAAC
CCATTTTTGCTTACAGTGCCAAGAATTCAAGAGCCCCACAGCCAATATTCAGTTACAGATTTGAAAAAG
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CTAAATCTGAAAATGATGGAAACATTGGAACATCTGAATACATATTTATGTCATGATAATTTGTCTTCT
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GATCACTTTGAACTTGACTGCACAGGACCATCTATTAAATCACCTTCCTCTTCAATAATTAAAAAAGCA

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TCTTTTGAACATGGCAAAAAACAAGAGAATGATTTGGACCTTTTGAGCGACTTTATTATGCTGCGAAAT
AAATATAAGACTTGCACCTCAAAGACTGAAGTCACAAACAGTGATGAAAAACATGATAAAGAAGCATGT
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GCCATAATTTTGCAGGATCTAGAAGAATTGAATTATGAGAAGGCATCAGACAATATCATTATGAGGCTG
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CAAATTGCTGACCACAGTTTAATGACCTCAAAGAGAGATCCTCATGAATGGTTGGATAAATCCTGGCTT
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CTCATGCTAAATAAAGGACCTTCACTGCATTGGATATTATTAGCAACTCTGTGTCAACTTCAGGAACTC
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AGAACACATGAAGCAAAAGGTTTCATAAATAAAGATGTATCGGACCCTATCTTTTCACTAGAGGGCACT
CAATCTCCTCTTCATTGGAACTTTAAGAAAAATATATGGGAACAAGAGAATCACCCGTTCAACTTACAA
TATGGTGCACAGCAGACTGCATGTAACAAATTGTACTCTCAGAAAGGTAATTTATTCACTGATCAGCAA
AAATGTCTATCAGATGAGTCTGAAGGCCTCACATGTGAAAGTTCAAAAGATGAGACTTTCTGGAGAGAA
TTACCATCTGTCCCCAGTTTGGATTTATTTCGTGCTTCTGATTCTAATGCAAATCAAAAAGAATTCAAC
AGCCTTTATTTCTACCAAAGAGCTGGAAAAAGTTTAGGACAGAAAAGGCACCATGAATCTTCATTTAAC
TCAGGAGACAAGGAATCATTAACAGGTTTTATGTGCTCACAACTACCACAATTCAAAAAACGACGTCTA
GCATATGAAAAAGTCCCTGGTAGAGTTGATGGGCAGACTCGGCTGAGGTTTTTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_173521

Insert Size: 4335 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).
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:	NM_173521.4
RefSeq Size:	4721 bp
RefSeq ORF:	4335 bp
Locus ID:	158401
Cytogenetics:	9q31.3
MW:	165.2 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] Transcript Variant: This variant (1) encodes the longer isoform (1).