

Product datasheet for SC310341

SHARP1 (BHLHE41) (NM_030762) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHARP1 (BHLHE41) (NM_030762) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHARP1
Synonyms:	BHLHB3; DEC2; FNSS1; hDEC2; SHARP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_030762 edited
 CTGGTCTGGCCGGCGACGCGCTGCCCTGTGGCCAAACACTGCCTGGAGTGAGAGCAAAC
 TACCAGCGCAGTGGGGCCGGCGGAGTGTGCGTGTGTGCGTGTGTGTGCGAGCGCG
 GTGGAGGGGGGGACCAACTGCTTCACACTTTCAACACTGCACTGAAGAGGGAGAGCGAG
 AGAGAGACTGGAGACGCACAGATCCCCCAAGGTCTCCAAGCCTACCGTCCCACAGATT
 ATTGTACAGAGCCCAAAAATCGAAACAGAGGAAACGAACAGCAGTTGAACATGGACGAA
 GGAATTCCTCATTGCAAGAGAGACAGTTACTGGAACATAGAGATTTTATAGGACTGGAC
 TATTCCTCTTTGTATATGTGTAACCCAAAAGGAGCATGAAACGAGACGACCAAGGAT
 ACCTACAAATTACCGCACAGATTAATAGAAAAGAAAAGAAGAGACCGAATTAATGAATGC
 ATTGCTCAGCTGAAAGATTTACTGCCTGAACATCTGAAATTGACAACCTCTGGGACATCTG
 GAGAAAGCTGTAGTCTTGAATTAACCTTTGAAACACTTAAAAGCTTTAACCGCCTTAACC
 GAGCAACAGCATCAGAAGATAATTGCTTTACAGAATGGGGAGCGATCTCTGAAATCGCCC
 ATTCAGTCCGACTTGATGCGTTCCACTCGGGATTTCAAACATGCGCCAAAGAAGTCTTG
 CAATACCTCTCCCGGTTTGAGAGCTGGACACCCAGGGAGCCGCGGTGTGTCAGCTGATC
 AACCACTTGACGCGCGTGGCCACCCAGTTCTTGCCACCCCGCAGCTGTTGACTCAACAG
 GTCCCTCTGAGCAAAGGCACCGCGCTCCCTCGGCCGCGGGTCCGCGGCCGCCCTGC
 CTGGAGCGCGCGGGCAGAAGCTGGAGCCCTCGCCTACTGCGTGCCCGTATCCAGCGG
 ACTCAGCCAGCGCCGAGCTCGCCGCGGAGAACGACACGGACACCGACAGCGGCTACGGC
 GGCAAGCCGAGGCCCGCGCGGACCGCGAGAAAGGCAAAGCGCGGGGGCGAGCCCGT
 ACCATCAAGCAGGAGCTCCCGGGAGGACTCGCCGCGCCCAAGAGGATGAAGCTGGAT
 TCCCGCGCGCGGCAGCGCGCGGCCCGGGGGCGCGCGGTGGCGCGGCAGCCGCG
 CTTCTGGGGCCCGACCCTGCCGCGCGCGCGCTGCTGAGACCCGACGCGCCCTGCTC
 AGCTCGTGGTGGCGTTCGGCGGAGGCGGAGGCGCGCCCTCCCGCAGCCCGCGCGCC
 GCGGCCCTTCTGCCTGCCCTTCTGCTTCTCTGCCTTCTGCAGCTGCCGCTACGTG
 CAGCCCTTCTGGACAAGAGCGGCTGGAGAAGTATCTGTACCCGCGCGGCTGCCGCC
 CCGTCCCGCTGTATACCCCGCATCCCCGCCCGCGCGAGCCGCGGAGCCCGCGCC
 GCCGCTGCCGCCCGCCGCCCGCTTCCCTGCCTGTCTCGGTGTTGTCGCCCTCC



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GAGAAGGCGGGCCGCCGCCGCGACCCCTCTGCCGCACGAGGTGGCGCCCTTGGGGCG
 CCGCACCCCCAGCACCCGACGGCCGCACCCACCTGCCCTTCGCCGGGCCCGCGAGCCG
 GGAACCCGGAGAGCTCTGCTCAGGAAGATCCCTCGCAGCCAGGAAAGGAAGCTCCCTGA
 ATCCTTGGCTCCCGAAGGACGGAGGTTCAAGCAGAGTGAGAAAGTAAAATACCCTTAAGG
 AGGTTCAAGCAGAGTGAGAAGTAAAATACCCTTAAGGCTTTAAGGGAGGAAGTGAAT
 AGATGCACGACAGGCATAAACAAGAACAACAAAACAGGTGTTATGTGTACATTGGAGTT
 CCTGTTTTGCTCATCCCGCACCCACCCACCTCCACACACTAACATCCCTTTCTCCCCC
 CACCAGCTGTAAAAGATCCTATGCGAAAAGACACTGGCTCTTTTTTTAATCCCCAAATA
 AATTTTGCCCTTTTAGGCCATGTTCCATTATCTTAAAATTGGAACCTAATTCGAGA
 GGAAGTAAGAAGGTCTGTTCTGTGGCTGAGCTAGGTGAACCCGGGTAGGGAAAGAT
 GTTAACACCTTTGACGTCTTTGGAGTTGACATGGAACAGCAGGTAGTTGTATGTAGAGC
 TAGTTCTCAAAGCTGCCCTGCCTGTTTTAGGAGGCGTCCACAAACAGATTGAGGCTCTT
 TTAGAATTGAATTTACTTTCAGTATTTTCTAATGTTTCAGCTTTCTAAAAGGCATATATT
 TTTCAAAGAAGTGAGGATGCAGTTTCTCACGTTGCAACCTATTCTGAAGTGGTTAAATG
 GTATCTTTAGTAACTTGCACCTGTTAAAGAAACACGGAGCTGGGCCATCGTCAGAACTA
 AGTCAGGGAAGGAGATGGATGAGAAGGCCAGAATCATTCTAGTACATTTGCTAACACTT
 TATTGAGAAATTGACCATGAATTAATGGACTCATCTTAATTTCTTCTAAGTCCATATATA
 GATAGATATCTATCTGTACAGATTTCTATTTATCCATAGATAGGTATCTATACATACACA
 TCTCAAGTGCATCTATCCCACTCTCATAATCCATCATGTTCCCTAAATTTTGTAACTCT
 TACTGTAAAAAAGTGCACCTGAACCTCAAACAAAACAAAACAAAACAAAACAAAACAAA
 CAAGTCCAAACTGATATCCTATATTCTGTTAAAATTCAAAGTGAACGAAAGCATTTA
 ACTGGCCAGTTTTGATTGCAAATGCTGTAAGATATAGAATGAAGTCCTGTGAGGCTTC
 CTATCTCCAAGTCTATGATTTTCTGGAGACCAACCAGATACCAGATAATCACAAGAA
 AGCTTTTTTAATAAGGCTTAAACCAAGACCTTGCTAGATATTTTGTGTTGTTGCAAG
 GTAGCACTGTGAGAAATCTCACTTGATGTTATGTAAGGGGTGAGACACAACAGTCTGAC
 TATGAGTGAGGAAAATCTGGGTCTTTTCGTCAGTTTGGTGCATTTGCTGCTGCTGTTG
 CTAAGTGTGCTCAAACGCTGTGTTAAACAACGTTAACTCTTAGCCTACAAGGTGGC
 TCTTATGTACATAGTTGTTAATACATCCAATTAATGATGTCTGACATGCTATTTTGTAG
 GGAGAAAATATGTGCTAATGATATTTGAGTAAAATATCTTTGGGGAGGATTTGCTGA
 AAAGTTGCACTTTTGTACAATGCTTATGCTTGGTACAAGCTTATGCTGTCTTAAATTAT
 TTTAAAAAATAAATACTGTCTGTGAGAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_030762
- Insert Size:** 3400 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_030762.1](#), [NP_110389.1](#)

RefSeq Size: 3641 bp

RefSeq ORF: 1449 bp

Locus ID: 79365

UniProt ID: [Q9C0J9](#)

Cytogenetics: 12p12.1

Domains: HLH, ORANGE

Protein Families: Transcription Factors

Protein Pathways: Circadian rhythm - mammal

Gene Summary: This gene encodes a basic helix-loop-helix protein expressed in various tissues. The encoded protein can interact with ARNTL or compete for E-box binding sites in the promoter of PER1 and repress CLOCK/ARNTL's transactivation of PER1. This gene is believed to be involved in the control of circadian rhythm and cell differentiation. Defects in this gene are associated with the short sleep phenotype. [provided by RefSeq, Feb 2014]