

Product datasheet for **SC117854**

SHARP2 (BHLHE40) (NM_003670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHARP2 (BHLHE40) (NM_003670) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHARP2
Synonyms:	BHLHB2; Clast5; DEC1; HLHB2; SHARP-2; SHARP2; STRA13; Stra14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003670, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGGATCCCCAGCGCAACCACCCCGCTGCCTGCCCAAAGCACCGGACTGGAGCACGGAG
ACCTACCAGGGATGTACCCTGCCACATGTACCAAGTGTACAAGTCAAGACGGGAATAAAGCGGAGCGA
GGACAGCAAGGAGACCTACAAATTGCCGCACCGGCTCATCGAGAAAAAGAGACGTGACCGGATTAACGAG
TGCATCGCCAGCTGAAGGATCTCTACCCGAACATCTCAAACCTACAACCTTTGGGTCACCTGGAAAAAG
CAGTGGTTCTTGAACCTACCTTGAAGCATGTGAAAGCACTAACAAACCTAATTGATCAGCAGCAGAGAA
AATCATTGCCCTGCAGAGTGGTTTACAAGCTGGTGGTGTGTCAGGGAGAAATGTCGAAACAGGTCAAGAG
ATGTTCTGCTCAGGTTTCCAGACATGTGCCCGGAGGTGCTTCAGTATCTGGCCAAGCACGAGAACAACCTC
GGACCTGAAGTCTTCGACAGCTTGTACCCACCTCCACCGGGTGGTCTCGGAGCTGCTGCAGGGTGGTAC
CTCCAGGAAGCCATCAGACCCAGCTCCCAAAGTATGGACTTCAAGGAAAAACCCAGCTCTCCGGCCAAA
GGTTCCGAAGGTCTGGGAAAAACTGCCGTGCCAGTCATCCAGCGGACTTTGCTCACTCGAGTGGGGAGC
AGAGCGGCAGCGACACGGACACAGACAGTGGCTATGGAGGAGAAATCGGAGAAGGGCGACTTGCAGTGA
GCAGCCGTGCTTCAAAGTGACCACGGACGCAGGTTACGATGGGAGAAAGGATCGGCGCAATTAAGCAA
GAGTCCGAAGAACCCCCACAAAAAGAACCAGGATGCAGCTTTCGGATGATGAAGGCCATTTCACTAGCA
GTGACCTGATCAGCTCCCGTTCCTGGGCCACACCCACACCAGCCTCCTTTCTGCCTGCCCTTCTACCT
GATCCCACCTTCAGCGACTGCCCTACCTGCCATGCTGGAGAAGTGGTATCCCACCTCAGTGCCAGTG
CTATACCCAGGCCTCAACGCCTCTGCCGACCCCTCTCTAGCTTATGAACCCAGACAAGATCTCGGCTC
CCTTGCTCATGCCCCAGAGACTCCCTTCTCCCTTCCAGCTCATCCGTCGCTCGACTCTTGTCTTGCT
CCAAGCTCTGAAGCCAATCCCCCTTTAAACTTAGAAACCAAGACTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003670 unedited
 CAGCATTTTGTAAATCACGACTCACTATAGGGCGGCCGCGCATTTCGGCACGAGGCCGCCAG
 TCTGTGCGCTGAGTCGGAGCCAGAGGCCGCGGGGACACCGGGCCATGCACGCCCCAACT
 GAAGCTGCATCTCAAAGCCGAAGATTCCAGCAGCCAGGGGATTTCAAAGAGCTCAGACT
 CAGAGGAACATCTGCGGAGAGACCCCGAAGCCCTCTCCAGGGCAGTCTCATCCAGACG
 CTCGCTAGTGCAGACAGGAGCGCGCAGTGGCCCCGGCTCGCCGCGCCATGGAGCGGATC
 CCCAGCGCGCAACCACCCCGCTGCCTGCCAAAGCACCGGGACTGGAGCACGGAGAC
 CTACCAGGGATGTACCCTGCCACATGTACCAAGTGTACAAGTCAAGACGGCGAATAAAG
 CGGAGCGAGGACAGCAAGGAGACCTACAAATTGCCGACCGGCTCATCGAGAAAAAGAGA
 CGTGACCGGATTAACGAGTGCATCGTCCAGCTGAAGGATCTCTACCCGAACATCTCANA
 CTTACAACCTTTGGGTCACCTTGGAAAAAGCAGTGGTTCTTGAACCTACCCTTGAAGCATGT
 GAAAGCACTAACAAACCTAATTGATCAGCATCAGCAGAAAATCATTGCCCTGCAGAGTGG
 TTTACCAGCTGGTGAAGTGTACGGAGCAATGTCGAAACAGGTCAAGAGATGTTTTGCTC
 AGGTTTCAGACCTGTGCCCGGAGGTGCTTTAGCATCTGCCAGCCGAAAAACTCGGGA
 CCTGAAGTCTTCGAGTGTCCCCCCCCCTCCCCGGTGGGCTCTGAACTGCTGCAGGTTG
 GGCCCTCAGGAACCATCCCGACAGCTTCCCAAGAATGGCACTCAAGAAAAACAGTTC
 TTCGGCAAGGTTTCGGAGGGCCGGGAAAAACCGGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003670 unedited
 ACGCAATCTAGAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCCCA
 GGGAAAAAATTATTTTATTAAGTATTTTAAAACAACACTTAAACATTTACTCATAAATA
 AAAATATTTACAATTTTACACCTTCAGGAAGGCTCCAAAATATAAACACTGTACCTCTCC
 CTAATAAAAAAAAAAATTATTCTCTCTTCAAAAACAGGAATACATTCATTTTTTCTCAC
 TGGGGGAATCAAGTATTTATCCAATAAACATCTGAAACATTTCCCTTTTTAATATATTA
 ATATAAATATATTTATAACAGCTTTACAATAAAGGCACCGACTTATCCCAAATTA
 ACCGGGAAAAAGAAAAAGTTAAAACACGATCAGCAATCAGGCATAGGGCATTGAAAAGC
 TGCTGCGGAGCTGGCTGGACACATCGGGAAAAACAAGTACTCTGGACAAAAATAAACTT
 CTTTGAAGGAAACGGAATCCTTTTTAGCAATAAGGACACTCCATATGCCGTTGGGCAAGA
 GGAATTACCCTACAAAAGGATCTGGCGGTGCCAAGGCTGGTTAGGCCTTTGAGAACTA
 ACCTTGGTAAAAGGAGTTTAGGATGGAATTGAAAACGACTCATTTCTGTTTGAGGGGGCA
 GCTTTTTACTAACCTTTGGCACCTTGGGGCTCCCTCGGGTGCCCGATTCTAAACCTG
 GTTTGGTTCCCTGCCAGGAAGACTAATGTTAGCCCTAAACAGGGCCAAAACCCAGGGACTC
 CTCCTCTCCGGGCATCTAACTTGACAAGGGCCATTTAATTCTACAAGCTATCCCTC
 AAAGCCCAGGGGAACCCATTTTTTTTTTTCGAGGAGGGTGGGAAAACCTGGGAAACCT
 CACACCATACGTGTTTGCAGGCCCTCCTCCCATGTAAAAACCTGCCCGACGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_003670

Insert Size:

3160 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).

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_003670.1 , NP_003661.1
RefSeq Size:	2922 bp
RefSeq ORF:	1239 bp
Locus ID:	8553
UniProt ID:	O14503
Cytogenetics:	3p26.1
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. [provided by RefSeq, Feb 2014]