

Product datasheet for **RG206882**

SHARP1 (BHLHE41) (NM_030762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHARP1 (BHLHE41) (NM_030762) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SHARP1
Synonyms:	BHLHB3; DEC2; FNSS1; hDEC2; SHARP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206882 representing NM_030762
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGAAGGAATTCCTCATTTGCAAGAGAGACAGTTACTGGAACATAGAGATTTTATAGGACTGGACT
 ATTCTCTTTGTATATGTGTAACCCAAAAGGAGCATGAAACGAGACGACACCAAGGATACCTACAATT
 ACCGCACAGATTAATAGAAAAGAAAAGAAGAGACCGAATTAATGAATGCATTGCTCAGCTGAAAGATTTA
 CTGCTGAACATCTGAAATTGACAACTCTGGGACATCTGGAGAAAGCTGTAGTCTTGAATTAACCTTGA
 AACACTTAAAAGCTTTAACCGCTTAACCGAGCAACAGCATCAGAAGATAATTGCTTTACAGAATGGGGA
 GCGATCTCTGAAATCGCCATTAGTCCGACTTGGATGCGTTCCTCGGGATTTCAAACATGCGCCAAA
 GAAGTCTTGAATACCTCTCCCGTTTGGAGAGCTGGACACCCAGGGAGCCGCGGTGTGCCAGCTGATCA
 ACCACTTGACGCGGTGCCACCCAGTTCTTGCCACCCCGCAGCTGTTGACTCAACAGGTCCCTCTGAG
 CAAAGGCACCGGCGCTCCCTCGGCCGCGGGTCCGCGGCCGCCCTGCCTGGAGCGCGCGGGCAGAAG
 CTGGAGCCCTCGCTACTGCGTGCCCGTCATCCAGCGGACTCAGCCAGCGCCGAGCTCGCCGCCGAGA
 ACGACACGGACACCGACAGCGGTACGGCGGCGAAGCCGAGGCCCGGCCGAGACCGGAGAAAGGCAAAGG
 CGCGGGGGCGAGCCGCTCACTCAAGCAGGAGCCTCCCGGGGAGGACTCGCCGGCGCCCAAGAGGATG
 AAGCTGGATTCCCGCGCGGCGGCGAGCGGCGGCGGCCCGGGGGCGGCGGTGGCGGGCGAGCCGCGC
 TTCTGGGGCCGACCTGCCCGCGGCGCGCTGCTGAGACCCGACGCGCCCTGCTCAGCTCGTGGT
 GCGGTTCCGGGGAGGCGGAGCGCGCCCTCCCGCAGCCCGCGGCGCGCGGCCGCCCTTCTGCCTGCC
 TTCTGCTTCTCTCGCTTCTGCAGTGCAGCTACGTGCAGCCCTTCTGGACAAGAGCGGCTGGAGA
 AGTATCTGTACCGGCGGCGGCTGCCGCCCTTCCCGTGTCTATACCCGGCATCCCGCCCGGCGGCG
 AGCCGCGCAGCCGCGCGCGCTGCCCGCGCGCGCTTCCCTGCTGTCTCGGTGTTGTGCG
 CCCCTCCGAGAAAGCGGGCGCGCGCGCACCTCCTGCCGACGAGGTGGCGCCCTTGGGGCGC
 CGCACCCCGACCCGACGGCCGACCCACCTGCCCTTCCCGGGCCCGCGAGCCGGGAACCCGGA
 GAGCTCTGCTCAGGAAGATCCCTCGCAGCCAGGAAAGGAAGCTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206882 representing NM_030762
 Red=Cloning site Green=Tags(s)

MDEGIPHLQERQLLEHRDFIGLDYSSLYMCKPKRSMKRDDTKDITYKLPHRLIEKKRRDRINECIAQLKDL
 LPEHLKLTTLGHLEKAVVLELTLKHLKALTALTEQQHQKIIALQNGERSLKSPIQSDLDAFHSGFQCAK
 EVLQYLSRFESWTPREPRCVQLINHLHAVATQFLPTPQLLTQVPLSKGTGAPSAAGSAAAPCLERAGQK
 LEPLAYCVPVIQRTQPSAELAAENDTDTDSGYGGEAEARPDREKKGAGASRVTIKQEPGEDSPAPKRM
 KLDSRGGSGGGPGGAVAAAAALLGPDPAALLRPDAALLSSLVAFGGGGGAPFPQAAAAAPFCLP
 FCFLSPSAAAAAYVQPFLLDKSLEKYLPAAPFLLYPGIPAPAAAAAAAAAAAAAAAAAFPCSSVLS
 PPPEKAGAAAATLLPHEVAPLGAHPQHPHGRTHLPFAGPREPGNPESSAQEDPSQPGEAP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_030762

ORF Size: 1446 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:

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

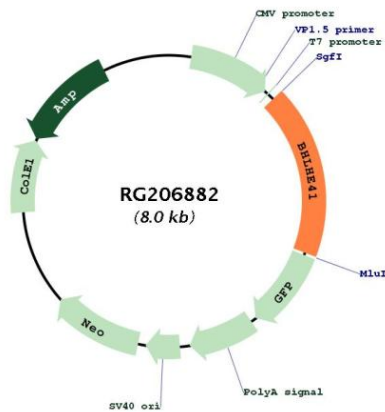
RefSeq ORF: 1449 bp

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]

Product images:



Circular map for RG206882