

Product datasheet for **SC311179**

HEY1 (NM_001040708) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HEY1 (NM_001040708) Human Untagged Clone
Tag: Tag Free
Symbol: HEY1
Synonyms: BHLHb31; CHF2; HERP2; HESR1; hHRT1; HRT-1; NERP2; OAF1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001040708 edited
GAGGCAAAGCGTGAGCGGATCAGTGTGTGCGGAACGCAAGCAGCCGAGAGCGGAGAGGGC
GCCGCTGTAGTTAACTCCTCCCTGCCCGCCGCGCCGACCCTCCCCAGGAACCCCCAGGGA
GCCAGCATGAAGCGAGCTCACCCGAGTACAGCTCCTCGGACAGCGAGCTGGACGAGACC
ATCGAGGTGGAGAAGGAGAGTGCAGGACGAGAATGGAACTTGAGTTCGGCTCTAGTTCC
ATGTCCCCAACTACATCTTCCCAGATTTTGGCCAGAAAAAGACGGAGAGGAATAATTGAG
AAGCGCCGACGAGACCGGATCAATAACAGTTTGTCTGAGCTGAGAAGGCTGGTACCCAGT
GCTTTTGGAGAAGCAGGTAATGGAGCAAGGATCTGCTAAGCTAGAAAAAGCCGAGATCCTG
CAGATGACCGTGGATCACCTGAAAATGCTGCATACGGCAGGAGGGAAAGTTACTTTGAC
GCGCACGCCCTTGCTATGGAATATCGGAGTTTGGGATTTTCGGGAATGCCTGGCAGAAGTT
GCGCGTTATCTGAGCATATTGAAGGACTAGATGCCTCTGACCCGCTTCGAGTTCGACTG
GTTTCGCATCTCAACAACACTACGCTTCCCAGCGGAAGCCGCGAGCGGGCGCCACGCGGGC
CTCGGACACATTCCTGGGGACCGTCTTCGGACATCACCCGCACATCGCGCACCCGCTG
TTGCTGCCCCAGAACGGCCACGGGAACGCGGGCACCACGGCTCACCCACGGAACCGCAC
CACCAGGGCAGGCTGGGCTCGGCACATCCGGAGGCGCCTGCTTTGCGAGCGCCCCATAGC
GGCAGCCTCGGACCGGTGCTCCCTGTGGTACCTCCGCTCCAACTGTCGCGCCTCTG
CTCTCCTCAGTGGCCTCCCTGTGGCCTTCCCCTTCTCTTTGGCTCCTTCCACTACTG
TCTCCCAATGCACTGAGCCCTTCAGCACCCACGAGGCTGCAAACCTTGCAAGCCCTAT
AGACCTTGGGGACGGAGATCGGAGCTTTTTAAAGAACTGATGTAGAATGAGGGAGGGGA
AAGTTTAAAAATCCAGCTGGGCTGGACTGTTGCCAACATCACCTTAAAGTCGTAGTAAA
AGTAAAAAGGAAAAAGGTACACTTTCAGATAATTTTTTTTTTAAAGACTAAAGTTTGT
GGTTTACTTTTATCTTTTTTAAATGTTTTTTCATCATGTCATGTATTAGCAGTTTTTAA
AACTAGTTGTTAAATTTGTTCAAGACATTAATTGAAATAGTGAGTATAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001040708 unedited CTACACATTTGTACACGACTTACTACTAGGGCGGCCGCGAACTCGGCACGAGGCAAAGCG TGAGCGGGATCAGTGTGTGCGGAACGCAAGCAGCCGAGAGCGGAGAGGCGCCGCTGTAGT TAACTCCTCCCTGCCCGCCGCGACCCTCCCCAGGAACCCCCAGGGAGCCAGCATGAA GCGAGCTACCCCCGAGTACAGCTCCTCGGACAGCGAGCTGGACGAGACCATCGAGGTGGA GAAGGAGAGTCCGGACGAGAATGGAACTTGAGTTCGGCTCTAGGTTCCATGTCCCCAAC TACATCTTCCCAGATTTTGGCCAGAAAAAGACGGAGAGGAATAATTGAGAAGCGCCGACG AGACCGGATCAATAACAGTTTGTCTGAGCTGAGAAGGCTGGTACCCAGTGCTTTTGAGAA GCAGGTAATGGAGCAAGGATCTGCTAAGCTAGAAAAAGCCGAGATCCTGCAGATGACCGT GGATCACCTGAAAATGCTGCATACGGCAGGAGGGAAAAGTTACTTTGACGCGCACGCCCT TGCTATGGACTATCGGAGTTTGGGATTTTCGGGAATGCCTGGCAGAAGTTGCGCGTTATCT GAGCATCATTGAAGGACTAGATGCCTCTGACCCGCTTCGAGTTCGACTGGTTTCGCATCT CAACAACACGCTTCCCAGCGGAAGCCGCGAGCGGCCACCGGGCCTCGGACACAT TCCCTGGGGGACCGTCTTCGGACATCACCCGCACATCGCGCACCCGCTGTGCTGCCCA GAACGGCCACGGGAACGCGGGCACCGCCCTACCCACGGAACCCGCACCACCAGGGC AGGCTGGGCTCGGCACATCCGGAGGCGCCTGCTTTGCGAGCGCCCTAGCGCAGCCTCGA CCGTGCTCCCTGTGGTCACTCCGCCTCAAACGTGCGCCGCTCTGCTCTCTCAGTGGCC TCCTGTCCGGTCCCCTTTCTTTCGGCTCCTTCCACTA
Restriction Sites:	Please inquire
ACCN:	NM_001040708
Insert Size:	1400 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001040708.1](#), [NP_001035798.1](#)

RefSeq Size: 2331 bp

RefSeq ORF: 927 bp

Locus ID: 23462

UniProt ID: [Q9Y5J3](#)

Cytogenetics: 8q21.13

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a nuclear protein belonging to the hairy and enhancer of split-related (HESR) family of basic helix-loop-helix (bHLH)-type transcriptional repressors. Expression of this gene is induced by the Notch and c-Jun signal transduction pathways. Two similar and redundant genes in mouse are required for embryonic cardiovascular development, and are also implicated in neurogenesis and somitogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2), also known as HESR1-12nt, uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in a longer protein (isoform b).