

Product datasheet for **SC303947**

HEY2 (NM_012259) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEY2 (NM_012259) Human Untagged Clone
Tag:	Tag Free
Symbol:	HEY2
Synonyms:	bHLHb32; CHF1; GRIDLOCK; GRL; HERP1; HESR2; HRT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012259 edited
 GGGGAGGGAGGAGCGGGCGTCAAGGTGCTGCGCCCCGCTCGGCGTCCGAGCTTCCGGCC
 GGGCTGTGCCCGCGCGTCTTCGCCGGGATGAAGCGCCCTGCGAGGAGACGACCTCCG
 AGAGCGACATGGACGAGACCATCGACGTGGGGAGCGAGAACAATTAAGCGGGCAAAGTA
 CTAGCTCTGTGATTAGATTGAATTCTCCAACAACAACATCTCAGATTATGGCAAGAAAGA
 AAAGGAGAGGGATTATAGAGAAAAGGCGTGGGATCGGATAAATAACAGTTTATCTGAGT
 TGAGAAGACTTGTGCAACTGCTTTTAAAAACAAGGATCTGCAAAGTTAGAAAAAGCTG
 AAATATTGCAAATGACAGTGGATCATTGAAGATGCTTCAGGCAACAGGGGTAAAGGCT
 ACTTTGACGCACACGCTTGGCCATGGACTTCATGAGCATAGGATTCCGAGAGTGCCTAA
 CAGAAGTTGCGCGGTACCTGAGCTCCGTGGAAGGCTGGACTCCTCGGATCCGCTGCGGG
 TGCGGCTTGTGTCTCATCTCAGCACTTGCGCCACCCAGCGGGAGCGCGGCCATGACAT
 CCTCCATGGCCCACCACCATCATCCGCTCCACCCGCATCACTGGGCCCGCGCTTCCACC
 ACCTGCCCGCAGCCCTGCTCCAGCCCAACGGCCTCCATGCCTCAGAGTCAACCCCTTGTC
 GCCTCTCCACAATTCAGAAGTGCTCCTGCCACGGCTCTGCTCTCCTCACGGCCACGT
 TTGCCCATGCGGATTCAGCCCTCCGAATGCCATCCACGGGCAGCGTCCGCCCTGCGTGC
 CACCTCTCTCCACCTCTCTTTGCCCTCTGCCACCGTCCACGCCGACGCGCAGCAG
 CCACCGCGGCTGCACACAGCTTCCCTCTGCTCTCGCGGGGCGATTCCCCATGCTTCCC
 CAAACGACAGCAGCAGTGGCCGCGGCCACAGCCATCAGCCCGCCCTTGTGAGTATCAG
 CCACGTCCAGTCTCAGCAGACCAGCAGTGGAAACAACAATAAACCTTACCGACCTGGG
 GGACAGAAGTTGGAGCTTTTAAATTTTTCTTGAACCTTCTGCAATAGTAACTGAATGTC
 CTCCATTTAGAGTCACTTAAACCTCTGCACCCTGAAGGTAGCCATACAGATGCCGAC
 AGATCCACAAAGGAACAATAAGCTATTTGAGACACAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012259 unedited ATAGGCGGCCGCGNAATTCGCACGAGGGGNGAGGAGGAGGCGGGCGTCAGGGTGCTGCGC CCCGCTCGGCGTCCGAGCTTCCGGCCGGGCTGTGCCCCGCGCGTCTTCGCCGGGATGAA GCGCCCTGCGAGGAGACGACCTCCGAGAGCGACATGGACGAGACCATCGACGTGGGGAG CGAGAACAATTAAGTCTCGGGCAAAGTACTAGCTCTGTGATTAGATTGAATTCTCCAACAAC AACATCTCAGATTATGGCAAGAAAAGAAAAGGAGAGGGATTATAGAGAAAAGGCGTCGGGA TCGGATAAATAACAGTTTATCTGAGTTGAGAAGACTTGTGCCAAGTCTTTTAAAAACA AGGATCTGCAAAGTTAGAAAAGCTGAAATATTGCAAATGACAGTGGATCATTTGAAGAT GCTTCAGGCAACAGGGGGTAAAGGCTACTTTGACGCACACGCTCTTGCCATGGACTTCAT GAGCATAGGATCCGAGAGTGCCTAACAGAAGTTGCGCGGTACCTGAGCTCCGTGGAAGG CCTGGACTCCCTCGATCCGCTGCGGGTGC GGCTTGTGTCTCATCTCAGCACTTGC GCCAC CCAGCGGGAGGCGGGCCATGACATCTNCATGGCCACCACCATCATCCGCTCCACCC GCATCACTGGGCCGCGCTTTACCACCTGCCCGAGCCCTGCTCCAGCCCAACGGCT CCATGCCTCAGAGTCAACCCCTGTGCCTTTCCACAACCTCAGAAGTGCCTCCTGCCACG GTTCTGCTTTTCTACGGGCCCGTTTGGCCCTTGGGATTGAGCCCTCGAATGGCATCC CCGGGCAG
Restriction Sites:	Please inquire
ACCN:	NM_012259
Insert Size:	1265 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:	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:	<u>NM_012259.2</u> , <u>NP_036391.1</u>
RefSeq Size:	2672 bp
RefSeq ORF:	1014 bp
Locus ID:	23493
UniProt ID:	<u>Q9UBP5</u>
Cytogenetics:	6q22.31
Protein Families:	Druggable Genome, Transcription Factors

Gene Summary:

This gene encodes a member of the hairy and enhancer of split-related (HESR) family of basic helix-loop-helix (bHLH)-type transcription factors. The encoded protein forms homo- or hetero-dimers that localize to the nucleus and interact with a histone deacetylase complex to repress transcription. Expression of this gene is induced by the Notch signal transduction pathway. Two similar and redundant genes in mouse are required for embryonic cardiovascular development, and are also implicated in neurogenesis and somitogenesis. Alternatively spliced transcript variants have been found, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]