

Product datasheet for RC236620

HEY1 (NM_001282851) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HEY1 (NM_001282851) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HEY1
Synonyms: BHLHb31; CHF2; HERP2; HESR1; hHRT1; HRT-1; NERP2; OAF1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236620 representing NM_001282851
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTCTTGAGGAAAGAAATGTATTCTGGTTAAGTAAAGGAAACCTAACGGGAGACCAAGGTTACTTTG
ACGCGCACGCCCTTGCTATGGACTATCGGAGTTTGGGATTCGGGAATGCCTGGCAGAAGTTGCGCGTTA
TCTGAGCATCATTGAAGGACTAGATGCCTCTGACCCGCTTCGAGTTCGACTGGTTTCGCATCTCAACAAC
TACGCTTCCCAGCGGGAAGCCGCGAGCGGCCACGCGGGCCTCGGACACATCCCTGGGGACCGTCT
TCGGACATCACCCGCACATCGCGCACCCGCTGTTGCTGCCCCAGAACGGCCACGGGAACGCGGGCACCAC
GGCCTCACCCACGGAACCGCACCACCAGGGCAGGCTGGGCTCGGCACATCCGGAGGCGCCTGCTTTGCGA
GCGCCCCCTAGCGGCAGCCTCGGACCGGTGCTCCCTGTGGTCACCTCCGCTCCAACTGTGCGCGCCTC
TGCTCTCCTCAGTGGCCTCCCTGTGCGCCTTCCCTTCTCTTTCGGCTCCTTCCACTTACTGTCTCCCAA
TGCACTGAGCCCTTCAGCACCCACGCAGGCTGCAAACCTTGGCAAGCCCTATAGACCTTGGGGGACGGAG
ATCGGAGCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236620 representing NM_001282851
Red=Cloning site Green=Tags(s)

MPL EERNVFWLSKGNLTGDQGYFDAHALAMDYRSLGFRECLAEVARYLSII EGLDASDPLRVRLVSHLNN
 YASQREAAASGAHAGLGHIPWGTVF GHHPIAHPLLLPQNGHGNAGTTASPTEPHHQGR LGSAPALR
 APPSGSLGPVLPVVT SASKLSPPLLSSVASLSAFPFSFGSFHLLSPNALSPSAPTQAANLGKPYRPWGTE
 IGAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

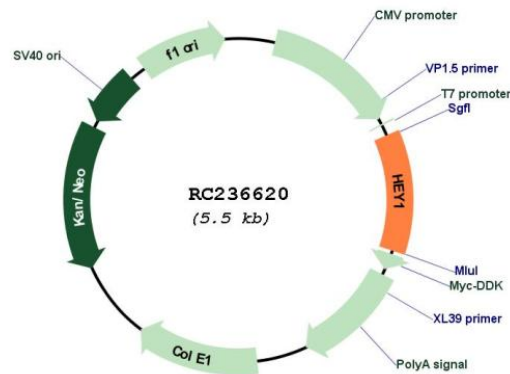
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282851

ORF Size: 642 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:	<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_001282851.1 , NP_001269780.1
RefSeq Size:	2052 bp
RefSeq ORF:	645 bp
Locus ID:	23462
UniProt ID:	Q9Y5J3
Cytogenetics:	8q21.13
Protein Families:	Druggable Genome, Transcription Factors
MW:	23.1 kDa
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]