

Product datasheet for RC216696

HEY1 (NM_001040708) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEY1 (NM_001040708) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HEY1
Synonyms:	BHLHb31; CHF2; HERP2; HESR1; hHRT1; HRT-1; NERP2; OAF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216696 representing NM_001040708 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCGAGCTCACCCGAGTACAGCTCCTCGGACAGCGAGCTGGACGAGACCATCGAGGTGGAGAAGG
AGAGTGCAGGACGAGAATGGAACTTGAGTTCGGCTCTAGGTTCCATGTCCCAACTACATCTTCCCAGAT
TTTGGCCAGAAAAGACGGAGAGGAATAATTGAGAAGCGCCGACGAGACCGGATCAATAACAGTTTGTCT
GAGCTGAGAAGGCTGGTACCCAGTGCTTTGAGAAGCAGGTAATGGAGCAAGGATCTGCTAAGCTAGAAA
AAGCCGAGATCCTGCAGATGACCGTGGATCACCTGAAAATGCTGCATACGGCAGGAGGAAAGGTTACTT
TGACGCGCAGCCCTTGCTATGGACTATCGGAGTTTGGGATTCGGGAATGCCTGGCAGAAGTTGCGCGT
TATCTGAGCATCATTGAAGGACTAGATGCCTCTGACCCGCTTCGAGTTCGACTGGTTTCGCATCTCAACA
ACTACGCTTCCCAGCGGGAAGCCGCGAGCGGCCACCGCGGGCCTCGGACACATTCCTGGGGGACCGT
CTTCGGACATCACCCGCACATCGCGCACCCGCTGTTGCTGCCCCAGAACGGCCACGGGAACGCGGGCACC
ACGGCCTCACCCACGGAACCGCACACCAGGGCAGGCTGGGCTCGGCACATCCGGAGGCGCTGCTTTGC
GAGCGCCCCCTAGCGGCAGCCTCGGACCGGTGCTCCCTGTGGTCACTCCGCCTCCAAACTGTGCGCCGC
TCTGCTCCTCAGTGGCCTCCCTGTGCGCCTTCCCTTCTCTTCGGCTCCTTCCACTTACTGTATCCC
AATGCACTGAGCCCTTCAGCACCCACGCAGGCTGCAAACCTTGGAAGCCCTATAGACCTTGGGGGACGG
AGATCGGAGCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216696 representing NM_001040708
Red=Cloning site Green=Tags(s)

MKRAHPEYSSDSELDETIEVEKESADENGLSSALGSMSPPTSSQILARKRRRGIIEKRRRDRINNSLS
 ELRRLVPSAFEKQVMEQGSAKLEKAEILQMTVDHLKMLHTAGGKGYFDAHALAMDYRSLGFRECLAEVAR
 YLSIIIEGLDASDPLRVRLVSHLNNYASQREAASGAHAGLGHIPWGTVFHGHPHIAHPLLLPQNGHGNAGT
 TASPTEPHHQGRLGSAHPEAPALRAPPSSGLGPVLPVVTASAKLSPPLLSSVASLSAFPFSFGSFHLLYP
 NALSPSAPTQAANLGKPYRPWGTEIGAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6101_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040708

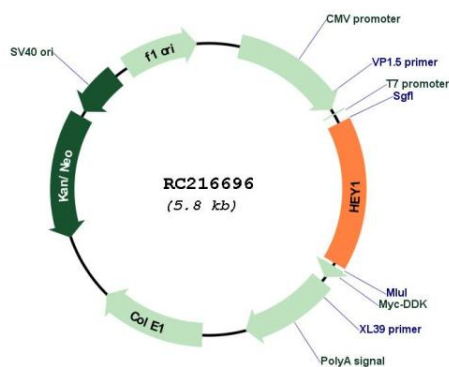
ORF Size: 924 bp

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.

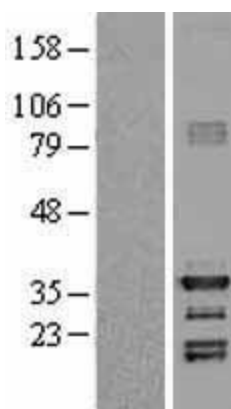
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	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:	<u>NM_001040708.1</u> , <u>NP_001035798.1</u>
RefSeq Size:	2331 bp
RefSeq ORF:	927 bp
Locus ID:	23462
UniProt ID:	<u>Q9Y5J3</u>
Cytogenetics:	8q21.13
Protein Families:	Druggable Genome, Transcription Factors
MW:	32.9 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]

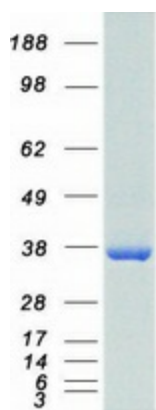
Product images:



Circular map for RC216696



Western blot validation of overexpression lysate (Cat# [LY400425]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216696 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HEY1 protein (Cat# [TP316696]). The protein was produced from HEK293T cells transfected with HEY1 cDNA clone (Cat# RC216696) using MegaTran 2.0 (Cat# [TT210002]).