

Product datasheet for **RG202544**

HEY2 (NM_012259) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEY2 (NM_012259) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEY2
Synonyms:	bHLHb32; CHF1; GRIDLOCK; GRL; HERP1; HESR2; HRT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202544 representing NM_012259 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCGCCCTGCGAGGAGACGACCTCCGAGAGCGACATGGACGAGACCATCGACGTGGGGAGCGAGA
ACAATTACTCGGGCAAAGTACTAGCTCTGTGATTAGATTGAATTCTCCAACAACAACATCTCAGATTAT
GGCAAGAAAGAAAAGGAGAGGGATTATAGAGAAAAGCGTCGGGATCGGATAAATAACAGTTTATCTGAG
TTGAGAAGACTTGTGCCAACTGCTTTTAAAAACAAGGATCTGCAAAGTTAGAAAAAGCTGAAATATTGC
AAATGACAGTGGATCATTGAAGATGCTTCAGGCAACAGGGGTAAAGGCTACTTTGACGCACACGCTCT
TGCCATGGACTTCATGAGCATAGGATCCGAGAGTGCCTAACAGAAGTTGCGCGGTACCTGAGCTCCGTG
GAAGGCCCTGGACTCCTCGGATCCGCTGCGGGTGC GGCTTGTGCTCATCTCAGCACTTGCCGCCACCCAGC
GGGAGGGCGCGCCATGACATCCTCCATGGCCCACCACATCATCCGCTCCACCCGCATCACTGGGCCGC
CGCCTTCACCACCTGCCCGCAGCCCTGCTCCAGCCCAACGGCCTCCATGCCTCAGAGTCAACCCCTTGT
CGCCTCTCCAACTTCAGAAGTGCTCCTGCCACGGCTCTGCTCTCCTCACGGCCACGTTTGCCCATG
CGGATTCAGCCCTCCGAATGCCATCCACGGGCAGCGTCGCCCCCTGCGTGCCACCTCTCTCCACCTCTCT
CTTGTCCCTCTCTGCCACCGTCCACGCCGAGCCGAGCAGCCACCGCGGCTGCACACAGCTTCCCTCTG
TCCTTCGCGGGGCATTCCCATGCTTCCCCAAACGCAGCAGCAGCAGTGGCCGCGCCACAGCCATCA
GCCCGCCCTTGTGAGTATCAGCCAGTCCAGTCCCTCAGCAGACCAGCAGTGAACAAACAATAAACCTTA
CCGACCCTGGGGACAGAAGTTGGAGCTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202544 representing NM_012259
 Red=Cloning site Green=Tags(s)

MKRPCEETTSESDMDDETIDVGSENNYSQGQSTSSVIRLNSPTTTSQIMARKKRRGIIIEKRRRDRINNSLSE
 LRRLVPTAFEKQGSAKLEKAEILQMTVDHLKMLQATGGKGYFDAHALAMDFMSIGFRECLTEVARYLSSV
 EGLDSSDPLRVRLVSHLSTCATQREAAAMTSSMAHHHPLHPHHWAAAFHHLPAALLQPNGLHASESTPC
 RLSTTSEVPPAHGSALLTATFAHADSALRMPSTGSAVPCVPPLSTLLSLSATVHAAAAATAAAHSFPL
 SFAGAFPMLPPNAAAAVAATAISPPLSVSATSSPQQTSSGTNNKPYRPWGTEVGAF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012259

ORF Size: 1011 bp

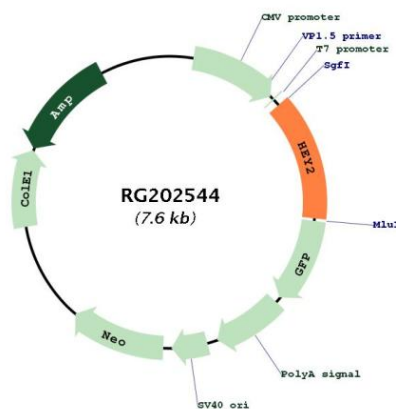
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_012259.3
RefSeq Size:	2672 bp
RefSeq ORF:	1014 bp
Locus ID:	23493
UniProt ID:	Q9UBP5
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]

Product images:



Circular map for RG202544