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Product datasheet for SC334514

HEY1 (NM_001282851) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEY1 (NM_001282851) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282851, the custom clone sequence may differ by one or more nucleotides

ATGCCTCTTGAGGAAAGAAATGTATTCTGGTTAAGTAAAGGAAACCTAACGGGAGACCAAGGTTACTTTG
ACGCGCACGCCCTTGCTATGGACTATCGGAGTTTGGGATTTCGGGAATGCCTGGCAGAAGTTGCGCGTTA
TCTGAGCATCATTGAAGGACTAGATGCCTCTGACCCGCTTCGAGTTCGACTGGTTTCGCATCTCAACAAC
TACGCTTCCCAGCGGGAAGCCGCGAGCGGCGCCCACGCGGGCCTCGGACACATTCCCTGGGGGACCGTCT
TCGGACATCACCCGCACATCGCGCACCCGCTGTTGCTGCCCCAGAACGGCCACGGGAACGCGGGCACCAC
GGCCTCACCCACGGAACCGCACCACCAGGGCAGGCTGGGCTCGGCACATCCGGAGGCGCCTGCTTTGCGA
GCGCCCCCTAGCGGCAGCCTCGGACCGGTGCTCCCTGTGGTCACCTCCGCCTCCAAACTGTCGCCGCCTC
TGCTCTCCTCAGTGGCCTCCCTGTCGGCCTTCCCCTTCTCTTTCGGCTCCTTCCACTTACTGTCTCCCAA
TGCACTGAGCCCTTCAGCACCCACGCAGGCTGCAAACCTTGGCAAGCCCTATAGACCTTGGGGGACGGAG
ATCGGAGCTTTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001282851
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).
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).

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Reconstitution Method:
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

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 (3) uses an alternate 5' structure which results in the use of a downstream start codon compared to variant 1. The encoded isoform (c) is shorter and has a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.