

Product datasheet for MR221867

Heyl (NM_013905) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Heyl (NM_013905) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Heyl
Synonyms: bHLHb33; hesr3; Hey3; Hrt3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221867 representing NM_013905
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCGGCCAGGGCGCCAGTGGCTCCGACGGCGAGTCTGATGGACCCATCGATGTGGGTCAAGAGA
 ACGATCTTAGCCAGATGGCCAGGCCGCTGACTACCCCGCCCTTCGCAGATGCAAGCCCGAAGAAGCG
 CAGAGGGATCATAGAGAAACGGCGCAGAGACCGCATCAACAGTAGCCTTTCTGAATTGCGACGATTGGTC
 CCCACTGCCTTTGAGAAACAGGGCTCCTCAAGCTGGAGAAAGCTGAGGTCTTGCAGATGACCGTGGATC
 ACTTGAAGATGCTCCATGCCTCTGGTGGCACAGGGTTCTTTGATGCCCGAGCCCTGGCTGTTGACTCCG
 GAGTATTGGGTTTCGGGAATGCCTCACTGAGGTACATAAGATACCTGGGGTCTTGAAGGACCCAGCAGC
 CATGCCGACCCTGTCCGATTCCCTCCTCCACCTCAAGAGCTATGCAGCAGAGATGGAGCCCTCAC
 CCACGACCACAGTGCCTGGCCTTTCCCGTGTGGCCCTGGTCTTCTGCATAGCTGTCCAGGCTTGCC
 TTCCCTGAACAGTCAGCTCGCCATCCTGGGAAGAGTGCCCGGCCCTGTCTCCCCAGCATCTTTCTCCC
 CTTACCTATCTCAGCCCTGAGGTCCGACACAGTGCACAGACCTGTGGTACCATCCCCCAACCCGGC
 GGAATTTGTTGCCAGCCGAGGGGTGACTTCCACCCAGAGAGCCCATCTTCTGAGAGGCCAGCTGCCCC
 TCCACCCACAGCCCTTGATGCCAGGGCTGCCAGGAGCATAGTCCCAATCCCACCATGTTCCCCACAACA
 GCCCTGGAGCTGGGAAATCTGATGACAATGTGTCTGGTTCTATCTCCAGTCCATGTCCTCAGGGCCAA
 CTGGGAGCCCTGCGGGAGCAGTGTCTACCACTCTGGGTCTCAGAAATCACTGAAATGGGGCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_013905

ORF Size: 978 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:
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_013905.3](#), [NP_038933.2](#)

RefSeq Size: 4532 bp

RefSeq ORF: 981 bp

Locus ID: 56198

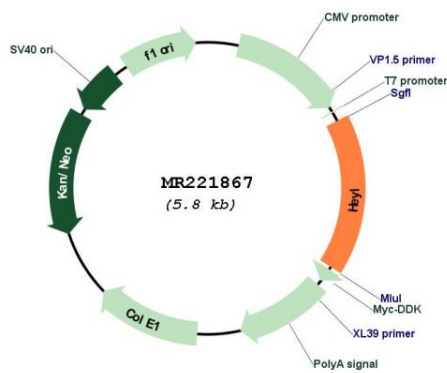
UniProt ID: [Q9DBX7](#)

Cytogenetics: 4 D2.2

MW: 35.4 kDa

Gene Summary: Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGTG-3' (By similarity). Downstream effector of Notch signaling required for cardiovascular development. Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition, which is itself critical for cardiac valve and septum development. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221867