

Product datasheet for MR223872

Hey2 (NM_013904) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hey2 (NM_013904) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hey2
Synonyms: bHLHb32; CHF1; Herp1; hesr2; Hrt2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223872 representing NM_013904
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAGCGCCCTTGTGAGGAAACGACCTCCGAAAGCGACCTGGACGAGACCATCGACGTGGGGAGCGAGA
 ACAATTACCCTGGGCACGCTACAAGCTCAGTGATGAGGTCCAATTCACCGACAACCTCTCAGATTAT
 GGCAAGAAAGAAAAGGAGAGGGATCATAGAAAAAGGCGTCGGGATCGAATAAATAACAGTTTATCTGAA
 TTGAGAAGACTAGTGCCAACAGCTTTTAAAAACAAGGATCTGCCAAGTTAGAAAAGGCTGAAATATTGC
 AAATGACAGTGGATCATTGAAGATGCTCCAGGCTACAGGGGTAAAGGCTACTTTGATGCCCATGCTCT
 TGCCACAGACTTCATGAGCATTGGATCCGAGAGTGCTTGACAGAAGTGGCTAGGTACCTAAGCTCAGTG
 GAAGGCCTTGACCCGTCGGACCCACTACGCGTGCCTTGTCTCTCATCTCAGCACCTGTGCCTCCCAGC
 GGGAGGCAGCAGTGATGACATCCTCCATGGCCACCACCATCACCCCTTGACCCCTCACCCTGAGCAGC
 TGCTTTCCACCATCTCCACAGCCCTGCTCCAGCCCAATGGACTCCACACATCAGAGTCAACCCCATGT
 CGCCTATCCACATCTTCAGAAGTGCTTCTGCTCATGGCTCTGCTCTCCTCACAGCAACGTTTGGCCATG
 CAGATTCTGCTCTTCGGATGCCATCAGGGGGCACCGTTGCACCCTGCGTGCACCTCTCTCCACCTCTCT
 TCTGTCTCTTCGGCCACTGTGCATGCCGACGCTGCAGCAGCCACTGCAGCTGCACACAGCTTCCCTCTG
 TCCTTCGAGGGCTTTTCCCATGCTCCCGTCCAATGCAGCGGCAGCAGCGCTGTTGCTGCTGCAACAG
 CAATCAGCCCACCCTTGTGGTATCCGACGCTCCAGTCTCAGCAGACAAGCACTGGGACAAACAATAA
 ACCTTACCAACCCTGGGGACAGAAGTTGGAGCCTTT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII



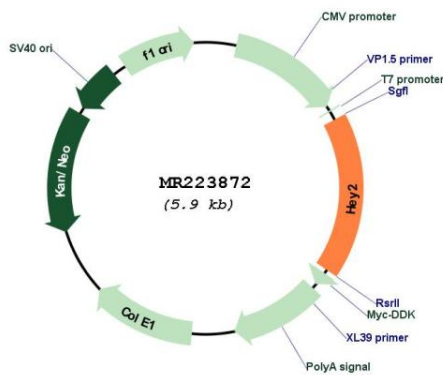
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Cytogenetics: 10 A4

MW: 36.3 kDa

Gene Summary: Transcriptional repressor which functions as a downstream effector of Notch signaling in cardiovascular development. Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition, which is itself critical for cardiac valve and septum development. May be required in conjunction with HEY1 to specify arterial cell fate or identity. Promotes maintenance of neuronal precursor cells and glial versus neuronal fate specification. Binds preferentially to the canonical E box sequence 5'-CACGTG-3'. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6 and by the neuronal bHLH factors ASCL1/MASH1 and NEUROD4/MATH3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223872