

## Product datasheet for **MC208661**

### Hey2 (NM\_013904) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hey2 (NM\_013904) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Hey2  
**Synonyms:** bHLHb32; CHF1; Herp1; hesr2; Hrt2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208661 representing NM\_013904  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGAAGCGCCCTTGTGAGGAAACGACCTCCGAAAGCGACCTGGACGAGACCATCGACGTGGGGAGCGAGA  
ACAATTACCCTGGGCACGCTACAAGCTCAGTGATGAGGTCCAATTCACCGACAACCTCTCAGATTAT  
GGCAAGAAAGAAAAGGAGAGGGATCATAGAAAAAGGGCTCGGGATCGAATAAAACAGTTTATCTGAA  
TTGAGAAGACTAGTGCCAACAGCTTTTGAAAAACAAGGATCTGCCAAGTTAGAAAAGGCTGAAATATTGC  
AAATGACAGTGGATCATTGAAGATGCTCCAGGCTACAGGGGGTAAAGGCTACTTTGATGCCCATGCTCT  
TGCCACAGACTTCATGAGCATTGGATTCCGAGAGTGCTTGACAGAAGTGGCTAGGTACCTAAGCTCAGTG  
GAAGGCCTTGACCCGTCGGACCCACTACGCGTGCGCCTTGCTCTCATCTCAGCACCTGTGCCTCCCAGC  
GGGAGGCAGCAGTGATGACATCCTCCATGGCCACCACCATCACCCCTTGACCCCTCACCACTGGGCAGC  
TGCTTTCCACCATCTCCCACAGCCCTGCTCCAGCCCAATGGACTCCACACATCAGAGTCAACCCCATGT  
CGCCTATCCACATCTTCAGAAGTGCCTTCTGCTCATGGCTCTGCTCTCCTCACAGCAACGTTTGGCCATG  
CAGATTCTGCTTTCGGATGCCATCAGGGGGCACCGTTGCACCCTGCGTGCCACCTCTCTCCACCTCTCT  
TCTGTCTTTTCGGCCACTGTGCATGCCGACGCTGCAGCAGCCACTGCAGCTGCACACAGCTTCCCTCTG  
TCCTTCGAGGGGCTTTTCCATGCTCCCGTCCATGCAGCGGCAGCAGCCGCTGTTGCTGCTGCAACAG  
CAATCAGCCACCCCTTGTGGTATCCGACGCTCCAGTCTCAGCAGACAAGCACTGGGCAAAACAATAA  
ACCTTACCAACCCTGGGGACAGAAGTTGGAGCCTTT**TAA**

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_013904



[View online »](#)

<b>Insert Size:</b>	1020 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013904.1</a> , <a href="#">NP_038932.1</a>
<b>RefSeq Size:</b>	2549 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	15214
<b>UniProt ID:</b>	<a href="#">Q9QUS4</a>
<b>Cytogenetics:</b>	10 A4
<b>Gene Summary:</b>	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]