

Product datasheet for **MC208657**

Hes2 (NM_008236) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hes2 (NM_008236) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hes2
Synonyms: HES-; HES-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208657 representing NM_008236
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGCTGCCCAGAAGAGTTGAGGACGCGCGGAGCTGCGCAAGAACCTAAAGCCGCTGCTGGAGAAGC
GCCGGCGCGCGGATCAACGAGAGCCTAAGCCAGCTGAAGGGTCTCGTATTGCCGCTGCTGGGCGCGGA
GACTTCCCGCTCTTGAAGTTGGAGAAGGCAGACATCCTGAAATGACTGTGCGCTTCTACAGGAGCAG
CCTGCGACCCTGTACTCCTCTGCAGCACCTGGGCCTTTGAATAGCTACCTCGAGGGTTACCGAGCCTGTC
TGGCGGACTGGCCCGCTACTGCCCGCTGCAGCGTCTGGAGCCCGCAGTGAGCGCGCGCCTACTAGA
GCACCTGCGACAGAGGACTGTCAGTGACTCGCCCTCACTGACGCTACCACCCGCTCCAGCTCCAGCT
CCTTCTCCGCGGTGCCTCCTCCAGGCAGTTCTGGCCTTTGGAGGCCATGG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAAGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_008236
Insert Size: 474 bp



[View online »](#)

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_008236.4](#), [NP_032262.2](#)

RefSeq Size: 2521 bp

RefSeq ORF: 474 bp

Locus ID: 15206

UniProt ID: [O54792](#)

Cytogenetics: 4 82.92 cM

Gene Summary: The protein encoded by this gene belongs to the mammalian Hes gene family, the mammalian homologues of Drosophila hairy and Enhancer of split. Hes 2 is a basic helix-loop-helix transcriptional repressor and is an effector of the Notch signaling pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.