

Product datasheet for **MC206398**

Hes1 (BC051428) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hes1 (BC051428) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hes1
Synonyms: bHLHb39; Hry
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC051428
 AGCTGGTGCTGATAACAGCGGAATCCCCTGTCTACCTCTCTCCTTGGTCCTGGAATAGTGCTACCGATCA
 CTAAGTAGCCCTAAGACATAATAAACCTTCAACTGCTCAGTAGTTTTTCTTATGAAAGTCAAGTAAAAGG
 ACGTAAGCAAAAAAAAAATTATTTTTTTTTTTCGCGTGAAGGATTCCAAAAATAAAATCTCTGGGGACTGA
 GAAAAAAAAAAAAAAAAAACGAAAATGCCAGCTGATATAATGGAGAAAAATTCCTCTCCCGGTGGCT
 GCTACCCAGCCAGTGTCAACACGACACCGGACAAACAAAGACGGCCTCTGAGCACAGAAAGTCATCAA
 AGCCTATCATGGAGAAGAGGCGAAGGGCAAGAATAAATGAAAGTCTAAGCCAAGTAAAACACTGATTTT
 GGATGCACTTAAGAAAGATAGCTCCCGCATTCCAAGTAGAGAAGGCAGACATTCTGGAATGACTGTG
 AAGCACCTCCGGAACCTGCAGCGGGCGCAGATGACCGCCGCGCTCAGCACAGACCCGAGCGTGTGGGGA
 AATACCGCGCCGGCTTCAGCGAGTGCATGAACGAGGTGACCCGCTTCTGTCCACGTGTGAGGGCGTTAA
 CACCGAGGTGCGCACTCGGCTGCTGGGCCACCTGGCCAAGTGCATGACCCAGATCAACGCCATGACCTAC
 CCCGGGCAGGCGCACCCCGCCTTGACAGGCGCCGCGCCGCGCCCGCCGTCAGGACCTGCCGTCCCGAGC
 ACGCGCCATTTCGCGCCGCGCCGCGCCGCTTGTGCCATCCCCGGGGCGCGGGCCCCCTCCCGGCAG
 CGCACCTGCAAGTTGGGCAGCCAGGCTGGAGAGGCTGCCAAGTTTTTGGCGGCTTCCAAGTGGTGCCG
 GCTCCTGACGGCCAATTTGCCTTCTCATCCCCAACGGGGCTTTCGCTCACAGCGGCCCGGTTCATCCCGG
 TCTACACCAGCAACAGTGGGACCTCGGTGGTCCCTAACGCAGTGTACCTTCCAGTGGCTCCTCGCTCAC
 TTCGGACTCCATGTGGAGACCGTGGCGGAAGTGAAGCCTCAGGCCACTGCTACCCGTAAGTCCCTAGC
 CCACCTCTCTCTGACGGACACTAAAAACGAAGTGGATTTTAGGAGAGACTTTTATAATTTGGTGTT
 TATTTTGTGCTTTTTTAATTCTAAAAAGTTACTTTTTGTAGAGAGCTGTATTAAGTACTGACCATGC
 ACTGCATTTGTATATATTTTATATGTTTCATATTGGATTGCGCCTTTGTATTATAAAAGTTGAGATGACAT
 TTCGTTTTTTACACGAGATTTCTTTTTTATGTGATGCCAAAGATGTTTAAAAATGCTCTTAAAAATATCT
 TCCTTTGGGGAAGTTTATTTGAGAAAATAATAAAAGAGTGAAGGCTTTTAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: RsrII-NotI
ACCN: BC051428



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Insert Size:	849 bp
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).
Reconstitution Method:	<ol style="list-style-type: none">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:	<u>BC051428</u> , <u>AAH51428</u>
RefSeq Size:	1527 bp
RefSeq ORF:	849 bp
Locus ID:	15205
Cytogenetics:	16 21.09 cM
Gene Summary:	Transcriptional repressor of genes that require a bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1 (By similarity). Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG-3' with low affinity. May play a role in a functional FA core complex response to DNA cross-link damage, being required for the stability and nuclear localization of FA core complex proteins, as well as for FANCD2 monoubiquitination in response to DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]