

## Product datasheet for **MG203818**

### Hes1 (BC051428) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hes1 (BC051428) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hes1
Synonyms:	bHLHb39; Hry
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203818 representing BC051428 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGCCAGCTGATATAATGGAGAAAAATTCCTCCTCCCGGTGGCTGCTACCCAGCCAGTGTCAACACGA  
 CACCGGACAAACCAAAGACGGCCTCTGAGCACAGAAAGTCATCAAAGCCTATCATGGAGAAGAGGCGAAG  
 GGCAAGAATAAATGAAAGTCTAAGCCAACTGAAAACACTGATTTTGGATGCACTTAAGAAAGATAGCTCC  
 CGGCATTCCAAGCTAGAGAAGGCAGACATTCTGGAAATGACTGTGAAGCACCTCCGGAACCTGCAGCGGG  
 CGCAGATGACCGCCGCGCTCAGCACAGACCCGAGCGTGTGGGGAAATACCGCGCCGGCTTCAGCGAGTG  
 CATGAACGAGGTGACCCGCTTCTGTCCACGTGTGAGGGCGTTAACACCGAGGTGCGCACTCGGCTGCTG  
 GGCCACCTGGCCAACTGCATGACCCAGATCAACGCCATGACCTACCCCGGGCAGGCGCACCCCGCCTTGC  
 AGGCGCCGCCGCCGCGCCCCCGTCAGGACCTGCCGGTCCCCAGCACGCGCCATTGCGCGCCGCCCGGCC  
 GCCGCTTGTGCCATCCCCGGGGCGCGGCGCCCCCTCCCGGCAGCGCACCCCTGCAAGTTGGGCAGCCAG  
 GCTGGAGAGGCTGCCAAGGTTTTGGCGGCTTCCAAGTGGTGCCGGCTCCTGACGGCCAATTTGCCTTTC  
 TCATCCCCAACGGGGCCTTCGCTCACAGCGGCCGGTCACTCCGGTCTACACCAGCAACAGTGGGACCTC  
 GGTGGTCTTAACGCAGTGTACCTTCCAGTGGCTCCTCGCTCACTTCGGACTCCATGTGGAGACCGTGG  
 CGGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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**Protein Sequence:** >MG203818 representing BC051428  
 Red=Cloning site Green=Tags(s)

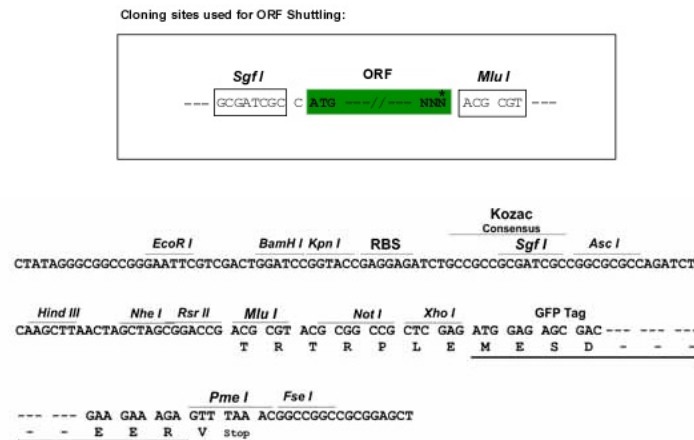
MPADIMEKNSSSPVAATPASVNTTPDKPKTASEHRKSSKPIMEKRRRRARINESLSQLKTLILDALKKDSS  
 RHSKLEKADILEMTVKHLRNLQRAQMTAALSTDPVLGKYRAGFSECMNEVTRFLSTCEGVNTEVTRLL  
 GHLANCMTQINAMTYPGQAHPALQAPPPPPSGPAGPQHAPFAPPPPLVIPGGAAPPGSAPCKLGSQ  
 AGEAAKVFGGFQVVPAPDGQFAFLIPNGAFAHSGPVIPIVYTSNGTSVGPNAVSPSSGSSLTSDSMWRPW  
 RN

TRTRPLE – GFP Tag – V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2186\\_a11.zip](https://cdn.origene.com/chromatograms/ja2186_a11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC051428

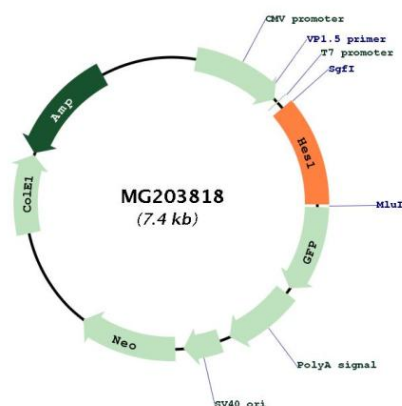
**ORF Size:** 846 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">BC051428</a> , <a href="#">AAH51428</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	848 bp
<b>Locus ID:</b>	15205
<b>Cytogenetics:</b>	16 21.09 cM
<b>Gene Summary:</b>	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]

## Product images:



Circular map for MG203818