

## Product datasheet for **MG223641**

### Hes7 (NM\_033041) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Hes7 (NM\_033041) Mouse Tagged ORF Clone  
Tag: TurboGFP  
Symbol: Hes7  
Synonyms: bHLHb37  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >MG223641 representing NM\_033041  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCACCCGGGAGCGAGCTGAGAATAGGGACGGCCCAAGATGCTGAAGCCGTTGGTGGAGAAGCGGC  
GCCGGGACCGCATCAACCGCAGCCTAGAAGAGCTGAGGCTGCTGCTCCTGGAGAGGACCAGGGACCAGAA  
CCTCCGGAACCCGAAGCTGGAGAAAGCGGAGATACTGGAGTTCGCCGTGGGCTACTTGAGGGAGCGAAGC  
CGGGTGGAGCCCCGGGGTTCCCCGGTCCCCAGGCCAGGACGCCGAGGGCGCTCGCCAGCTGCTACTTGT  
CCGGCTTCGCGAGTGCCTGCTTCGCTTGGCGGCCTTTGCGCACGACGCCAGCCCGCCGACGCTCCCA  
GCTTTTCTCCGCCTGCACGGCTACCGGCGCCCAAAACCGCCCGGAGGCCGTAGATCCAGGGCTC  
CCAGCGCCGCGCCACCCTGGACCCCGCTTACCAATCCTTGGCCCCGCGCTGCACCAGCGCCCCCAG  
TGCACCAGGGCCCTCCTAGTCCCCGCTCGCTTGGTCCCCATCCCACTGCTCCTCTCGCGCCGGGATTC  
GGGCGCGCCGGCGCCCTCACCGGACTGCTGCCGCCACCGCCACCGCCTTACAGACAAGACGGGGCGCC  
AAGGCCCGCCACTCCCACCGCCCGCTTTGGAGACCTTGGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223641 representing NM\_033041  
 Red=Cloning site Green=Tags(s)

MVTRERAENRDGPKMLKPLVEKRRRDRINRSLEELRLLLLERTRDQNLNPNKLEKAEILEFAVGYLRERS  
 RVEPPGVPRSPGQDAEALASCYLSGFRECLLRLLAAFAHDASPAARSQFLSALHGYYRPPKPPRPEAVDPGL  
 PAPRPPPLDPASPILGPALHQRPPVHQGPPSPRLAWSPSHCSSRAGDSGAPAPLTGLLPPPPPPYRQDGAP  
 KAPPLPPPAFWRPWP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033041

**ORF Size:** 675 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_033041.1](#)

**RefSeq Size:** 964 bp

**RefSeq ORF:** 678 bp

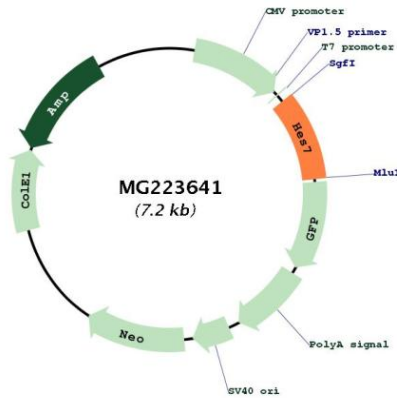
**Locus ID:** 84653

**UniProt ID:** [Q8BKT2](#)

**Cytogenetics:** 11 42.38 cM

**Gene Summary:** Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223641