

## Product datasheet for MR202615

### Hes6 (NM\_019479) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hes6 (NM_019479) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hes6
Synonyms:	A1326893; bHLHb41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202615 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCGTCCCAGGCGCCAGCCGGGACCGTGCAGGCCAGGAGGATGAGGACCGCTGGGAAGCACGGG  
GGGACCGCAAGGCCCGGAAGCCCTTGGTGGAGAAGAAGCGACGCGCACGGATCAACGAGAGTCTTCAGGA  
GCTGCGGCTGCTGCTGGCCGGTACCGAGGTGCAGGCCAAGCTAGAGAACCGCGAGGTTCTGGAGCTGACC  
GTGAGGCGCTGCAGGGCGCGTGCAGGCGGGCGCGGAGCGGGAGCAGCTGCAGGCTGAAGCAAGCG  
AGCGCTTCGCTGCTGGCTACATCCAGTGCATGCATGAGGTGCACACGTTCTGTCCACGTGCCAAGCCAT  
CGATGCCACTGTCTCAGCTGAACCTCTGAACCACCTGCTAGAATCCATGCCACTGCGCGAGGGTAGCAGC  
TTTCAGGATCTGCTGGGGGACTCCCTAGCTGGGCTGCCTGGAGGCTCTGGGAGGAGCAGCTGGCCTCCAG  
GAGGGTCCCAGAATCCCATTGTCCAGTCCCCAGGTCCCGGGGACGACCTGTGTTCTGACCTAGAGGA  
GATCCCAGAGGCTGAACAAACCGGGTGCCTGCTGAGGGGCCGATTTGGTGTCTACATCCTTAGGCAGC  
CTGACTGCAGCTCGCCGGGCTCAGAGTGTGTGGAGGCCTTGG

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202615 protein sequence  
 Red=Cloning site Green=Tags(s)

MAPSQAPSRDRAGQEDEDRWEARGDRKARKPLVEKRRRARINESLQELRLLLAGTEVQAKLENAEVLELT  
 VRRVQGALRGRAREREQLQAEASERFAAGYIQCMHEVHTFVSTCQAI DATVSAELLNHLLSMPREGSS  
 FQDLLGDSLGLPGGSGRSSWPPGGSPESPLSSPPGPGDDLCSDL EEIPEAELNRVPAEGPDLVSTSLGS  
 LTAARRAQSVWRPW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_019479

**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\\_019479.1](#), [NM\\_019479.2](#), [NM\\_019479.3](#), [NP\\_062352.1](#)

**RefSeq Size:** 1335 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 55927

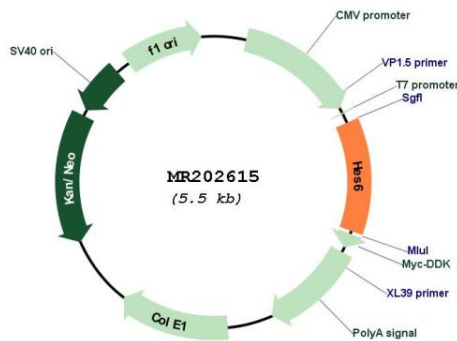
**UniProt ID:** [Q9JHE6](#)

**Cytogenetics:** 1 D

**MW:** 24.5 kDa

**Gene Summary:** Does not bind DNA itself but suppresses both HES1-mediated N box-dependent transcriptional repression and binding of HES1 to E box sequences. Also suppresses HES1-mediated inhibition of the heterodimer formed by ASCL1/MASH1 and TCF3/E47, allowing ASCL1 and TCF3 to up-regulate transcription in its presence. Promotes cell differentiation. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202615