

Product datasheet for **RR204727**

Hes1 (NM_024360) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Hes1 (NM_024360) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Hes1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR204727 representing NM_024360
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGCTGATATAATGGAGAAAAATTCCTCGTCCCCGGTGGCTGCTACCCAGCCAGTGTCAACACGA
 CACCGGACAAACCAAGACAGCCTCTGAGCACAGAAAGTCATCAAAGCCTATCATGGAGAAGAGGCGCCG
 GGCAAGAATAAATGAAAGTTTGAGCCAACCTGAAAACACTGATTTTGGATGCACTTAAGAAAGATAGCTCC
 CGGCATTCCAAGCTGGAGAAGGCAGACATTCTGGAAATGACAGTGAAGCACCTCCGGAACCTGCAGCGGG
 CGCAGATGACCGCGCTCTCAGCACAGACCCGAGCGTGTGGGGAAGTACCGCGCCGGCTTCAGCGAGTG
 CATGAACGAGGTGACCCGCTTCTGTCCACGTGTGAGGGCGTTAACACCGAGGTGCGCACTCGGCTGCTG
 GGCCACCTGGCCAACCTGCATGACCCAGATCAACGCCATGACCTACCCCGGCAGGCGCACCCCGCCTTGC
 AGGCGCCGCGCCGCGCCCGCCCGTCAAGACCTGGCGGTCCCAGCACGCGCCATTCGCGCCGCGCCGCGC
 GCTTGTGCCCATCCCGGGGCGCGGCGCCCGCTCCCGGCAGCGCACCTGCAAGTTGGGCAGCCAGGCT
 GGAGAGGCTGCCAAGTTTTTGGCGCTTCCAAGTGGTCCGGCTCCTGACGGCCAATTTGCTTCTCA
 TCCCAATGGGGCCTTCGCCACAGCGGCCCGGTATCCCGGTCTACACCAGCAACAGCGGGACCTCGGT
 GGGTCTAACGCAGTGTGCCTTCCAGCGGCTCCTCGTCACTGCGGACTCCATGTGGAGGCCGTGGCGG
 AAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204727 representing NM_024360
Red=Cloning site Green=Tags(s)

MPADIMEKNSSSPVAATPASVNTTPDKPKTASEHRKSSKPIMEKRRRARINESLSQLKTLILDALKKSS
 RHSKLEKADILEMTVKHLRNLQRAQMTAALSTDPVSLGKYRAGFSECMNEVTRFLSTCEGVNTEVTRLL
 GHLANCMTQINAMTYPGQAHPALQAPPPPPSGPGGPQHAPFAPPPPLVPVPGGAAPPGSAPCKLGSQA
 GEAAKVFGGFQVVPAPDQGQAFLLPNGAFAHSGPVIPVYTSNSGTSVGPNAVSPSSGSSLTADSMWRPWR
 N

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_024360

ORF Size: 843 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_024360.3](#), [NP_077336.3](#)

RefSeq Size: 1436 bp

RefSeq ORF: 846 bp

Locus ID: 29577

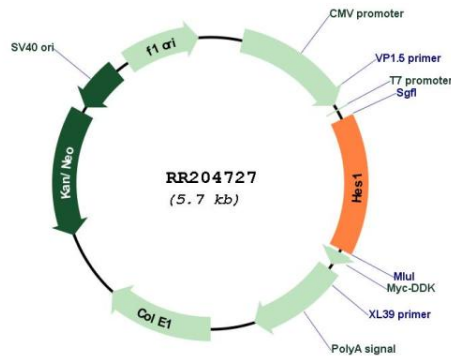
UniProt ID: [Q04666](#)

Cytogenetics: 11q22

MW: 29.6 kDa

Gene Summary: may act as a transcriptional repressor; may inhibit cell adhesion molecule NCAM-dependent neurite outgrowth [RGD, Feb 2006]

Product images:



Circular map for RR204727