

## Product datasheet for **RC226984**

### HES6 (NM\_001142853) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HES6 (NM_001142853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HES6
Synonyms:	bHLHb41; bHLHc23; C-HAIRY1; HES-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226984 representing NM_001142853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCCACCCGCGCGCCTGGCCGGGACCGTGTGGCCGTGAGGATGAGGACGGCTGGGAGACGCGAG  
 GGGACCGCAAGGCCCGGAAGCCCTGGTGGAGAAGAAGCGGCGCGCGGATCAACGAGAGCCTGCAGGA  
 GCTGCGGCTGCTGCTGGCGGGCGCCGAGGCCAAGCTGGAGAACGCCGAAGTGTGGAGCTGACGGTGGCG  
 CGGGTCCAGGTGTGCTGCGGGGCCGGCGCGCAGCGCAGCAGCTGCAGGCGGAAGCGAGCGAGCGCT  
 TCGCTGCCGGCTACATCCAGTGCATGCACGAGGTGCACACGTTCTGTCCACGTGCCAGGCCATCGACGC  
 TACCGTCGCTGCCGAGCTCCTGAACCATCTGCTCGAGTCCATGCCGCTGCGTGAGGGCAGCAGCTCCAG  
 GATCTGCTGGGGGACGCCCTGGCGGGGCCACCTAGAGCCCTGGACGGAGTGGCTGGCCTGCGGGGGGCG  
 CTCCGGGATCCCAATACCCAGCCCCCGGGTCTGGGGACGACCTGTGCTCCGACCTGGAGGAGGCCCC  
 TGAGGCTGAAGTGAAGTCAAGGCTCCTGCTGAGGGGCCGACTTGGTGCCCGCAGCCCTGGGCAGCCTGACC  
 ACAGCCCAAATTGCCCGGAGTGTCTGGAGGCCTTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC226984 representing NM\_001142853  
 Red=Cloning site Green=Tags(s)

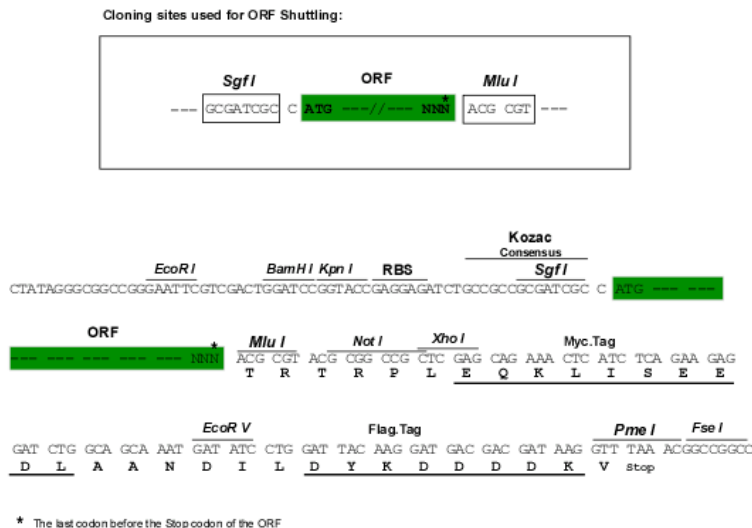
MAPPAAPGRDRVGREDEDGWETRGRKARKPLVEKKRRARINESLQELRLLLAGAEAKLENAEVLELTVR  
 RVQGVLRGRAREREQLQAEASERFAAGYIQCMEVHTFVSTCQAIDATVAAELLNHLLSMPLREGSSFQ  
 DLLGDALAGPPRAPGRSGWPAGGAPGSPSPPGPGDDLCSDLEEAPAEELSQAPEGPDLPVPAALGSLT  
 TAQIARSVWRPW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1510\\_c08.zip](https://cdn.origene.com/chromatograms/ja1510_c08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001142853

**ORF Size:** 666 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\\_001142853.3](#)

**RefSeq ORF:** 669 bp

**Locus ID:** 55502

**UniProt ID:** [Q96HZ4](#)

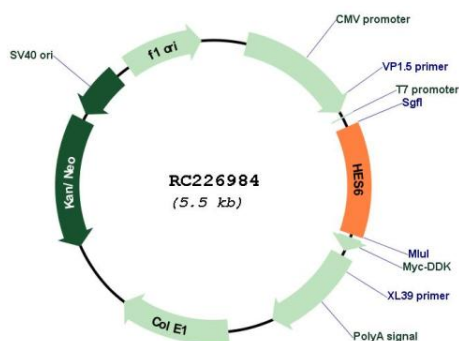
**Cytogenetics:** 2q37.3

**Protein Families:** Druggable Genome, Transcription Factors

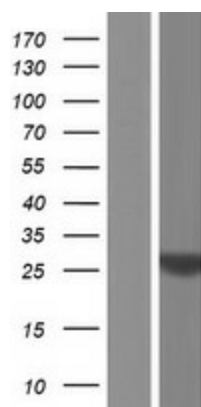
**MW:** 23.7 kDa

**Gene Summary:** This gene encodes a member of a subfamily of basic helix-loop-helix transcription repressors that have homology to the Drosophila enhancer of split genes. Members of this gene family regulate cell differentiation in numerous cell types. The protein encoded by this gene functions as a cofactor, interacting with other transcription factors through a tetrapeptide domain in its C-terminus. Alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Dec 2008]

## Product images:



Circular map for RC226984



Western blot validation of overexpression lysate (Cat# [LY428288]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226984 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).