

## Product datasheet for **RC200314**

### **HSF1 (NM\_005526) Human Tagged ORF Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                     |
| Product Name:      | HSF1 (NM_005526) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                 |
| Symbol:            | HSF1                                    |
| Synonyms:          | HSTF1                                   |
| Vector:            | pCMV6-Entry (PS100001)                  |
| E. coli Selection: | Kanamycin (25 ug/mL)                    |
| Cell Selection:    | Neomycin                                |



[View online »](#)

ORF Nucleotide  
Sequence:

>RC200314 representing NM\_005526  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATCTGCCCGTGGGCCCGGCGCGGGGCCAGCAACGTCCCGCCTTCTGACCAAGCTGTGGA  
CCCTCGTGAGCGACCCGGACACCGACGCGCTCATCTGCTGGAGCCGAGCGGGAACAGCTTCCACGTGTT  
CGACCAGGGCCAGTTTGCCAAGGAGGTGCTGCCAAGTACTTCAAGCACAAACAACATGGCCAGCTTCGTG  
CGGCAGCTCAACATGTATGGCTCCGAAAGTGGTCCACATCGAGCAGGGCGGCCTGGTCAAGCCAGAGA  
GAGACGACACGGAGTTCAGCACCCATGCTTCTGCTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAG  
GAAAGTGACCAGTGTGCCACCCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTG  
CTGACGGACGTGCAGCTGATGAAGGGGAAGCAGGAGTGCATGGACTCCAAGCTCCTGGCCATGAAGCATG  
AGAATGAGGCTCTGTGGCGGGAGGTGGCCAGCCTTCGGCAGAAGCATGCCAGCAACAGAAAGTCGTCAA  
CAAGCTCATTAGTTCCTGATCTCACTGGTGCAGTCAAACCGGATCCTGGGGTGAAGAGAAAGATCCCC  
CTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCCCAAGTATAGCCGGCAGTTCTCCCTGGAGCAGG  
TCCACGGCTCGGGCCCTACTCGGCCCTCCCCAGCCTACAGCAGCTCCAGCCTCTACGCCCTGATGC  
TGTGGCCAGCTCTGGACCATCATCTCCGACATCACCGAGCTGGCTCCTGCCAGCCCATGGCTCCCC  
GGCGGGAGCATAGACGAGAGGCCCTATCCAGCAGCCCTGGTGCCTGTCAAGGAGGAGCCCCAGCC  
CGCCTCAGAGCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCATCTTCCGTGGACCCCTTGTCCCC  
GACCGCCCTATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCGCTCCGTACAGCCCTCACGGAC  
GCCAGGGCCACACGGACACCGAGGGCCGGCTCCCTCCCCCGCCACCTCCACCCCTGAAAAGTGGCC  
TCAGCGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCACTGGATGCTATGACTCAACCTGGATAA  
CCTGCAGACCATGCTGAGCAGCCAGGCTTCAGCGTGGACACCAGTGCCTGCTGGACCTGTTAGCCCC  
TCGGTGACCGTGCCCGACATGAGCCTGCCTGACCTTGACAGCAGCCTGGCCAGTATCCAAGAGCTCCTGT  
CTCCCCAGGAGCCCCAGGCCTCCCGAGGAGAGAACAGCAGCCCGGATTACAGGGAAGCAGCTGGTGA  
CTACACAGCGCAGCCGCTGTTCTGCTGGACCCGGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTG  
CTGTTTGAAGTGGGAGAGGGCTCTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCC  
TGCTGACAGGCTCGGAGCCTCCAAAGCCAAGGACCCCACTGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RC200314 representing NM\_005526  
Red=Cloning site Green=Tags(s)

MDLPVGPAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGFQFAKEVLPKYFKHNNMASFV  
RQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPFLRGQEQLLENIKRKVTSVSTLKSEDIKIRQDSVTKL  
LTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKL IQFLISLVQSNRILGVKRRKIP  
LMLNDSGSAHMPKYSRQFSLEHVHSGPYSPAYSSSLYAPDAVASSGPIISDITELAPASPMASP  
GGSIDERPLSSPLVRVKEPPSPQSPRVEEASPGRPSSVDTLTLLSPTALIDSILRESEPPASVTALTD  
ARGHTDTEGRPPSPPTSTPEKCLSVACLKNEKSDHLDAMDSNLDNLQTMSSHGFSVDTSALLDLFSP  
SVTVPMSLPDLDSLASIQELLSPQEPPEAENSSPDGKQLVHYTAQPLFLLDPGSVDTSNDLPV  
LFELGEGSYFSEGDGFAEDPTISLLTGSEPPKAKDPTVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Chromatograms:

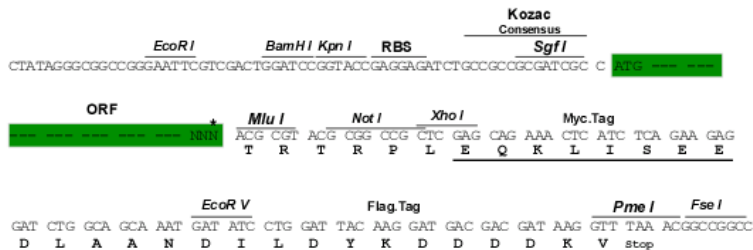
[https://cdn.origene.com/chromatograms/mg3692\\_e01.zip](https://cdn.origene.com/chromatograms/mg3692_e01.zip)

## Restriction Sites:

SgfI-MluI

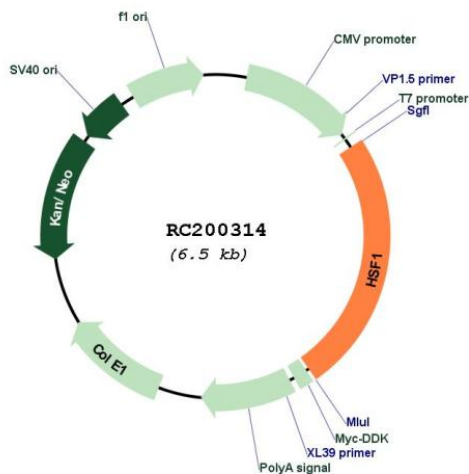
**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**

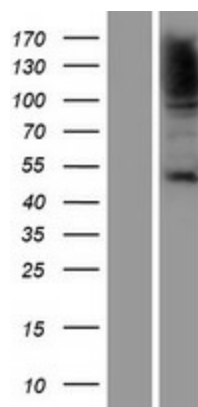


ACCN:

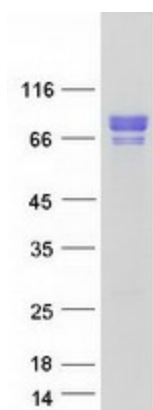
NM\_005526

|                   |   |
|-------------------|---|
| ORF Size:         | 1587 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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.<br><br>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. <a href="#">More info</a> |
| OTI Annotation:   | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| RefSeq:           | <a href="#">NM_005526.1</a> , <a href="#">NM_005526.2</a> , <a href="#">NM_005526.3</a> , <a href="#">NM_005526.4</a> , <a href="#">NP_005517.1</a>   |
| RefSeq Size:      | 2166 bp   |
| RefSeq ORF:       | 1590 bp   |
| Locus ID:         | 3297  |
| Domains:          | HSF   |
| Protein Families: | Transcription Factors   |
| MW:               | 57.1 kDa  |
| Gene Summary:     | The product of this gene is a transcription factor that is rapidly induced after temperature stress and binds heat shock promoter elements (HSE). This protein plays a role in the regulation of lifespan. Expression of this gene is repressed by phosphorylation, which promotes binding by heat shock protein 90. [provided by RefSeq, Jul 2017]   |

### Product images:



Western blot validation of overexpression lysate (Cat# [LY417243]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200314 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSF1 protein (Cat# [TP300314]). The protein was produced from HEK293T cells transfected with HSF1 cDNA clone (Cat# RC200314) using MegaTran 2.0 (Cat# [TT210002]).