

Product datasheet for **RG200314**

HSF1 (NM_005526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSF1 (NM_005526) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSF1
Synonyms:	HSTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200314 representing NM_005526
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTGCCCGTGGGCCCCGGCGCGGGGCCAGCAACGTCCCGCCTTCTGACCAAGCTGTGGA
 CCCTCGTGAGCGACCCGACACCGACGCGCTCATCTGCTGGAGCCGAGCGGGAACAGCTTCCACGTGT
 CGACCAGGGCCAGTTTGCCAAGGAGGTGCTGCCAAGTACTTCAAGCACAAACAACATGGCCAGCTTCGTG
 CGGCAGCTCAACATGTATGGCTCCGAAAGTGGTCCACATCGAGCAGGGCGGCCTGGTCAAGCCAGAGA
 GAGACGACACGGAGTTCAGCACCCATGCTTCTGCTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAG
 GAAAGTGACCAGTGTGCCACCCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTG
 CTGACGGACGTGCAGCTGATGAAGGGGAAGCAGGAGTGCATGGACTCCAAGCTCCTGGCCATGAAGCATG
 AGAATGAGGCTCTGTGGCGGGAGGTGGCCAGCCTTCGGCAGAAGCATGCCAGCAACAGAAAGTCGTCAA
 CAAGCTCATTAGTTCCTGATCTCACTGGTGCAGTCAAACCGGATCCTGGGGTGAAGAGAAAGATCCCC
 CTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCCCAAGTATAGCCGGCAGTTCTCCCTGGAGCAGG
 TCCACGGCTCGGGCCCTACTCGGCCCTCCCCAGCCTACAGCAGCTCCAGCCTCTACGCCCTGATGC
 TGTGGCCAGCTCTGGACCATCATCTCCGACATCACCGAGCTGGCTCCTGCCAGCCCCATGGCCTCCCC
 GGCGGGAGCATAGACGAGAGGCCCTATCCAGCAGCCCCCTGGTGCCTGTCAAGGAGGAGCCCCCAGCC
 CGCCTCAGAGCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCATCTTCCGTGGACCCCTTGTCCCC
 GACCGCCCTATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCCGCTCCGTACAGCCCTCACGGAC
 GCCAGGGCCACACGGACACCGAGGGCCGGCCTCCCTCCCCCGCCACCTCCACCCCTGAAAAGTGCC
 TCAGCGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCACTGGATGCTATGGACTCCAACCTGGATAA
 CCTGCAGACCATGCTGAGCAGCCAGGCTTCAGCGTGGACACCAGTGCCTGCTGGACCTGTTAGCCCC
 TCGGTGACCGTGCCCGACATGAGCCTGCCTGACCTTGACAGCAGCCTGGCCAGTATCCAAGAGCTCCTGT
 CTCCCCAGGAGCCCCCAGGCCTCCCGAGGAGAGAACAGCAGCCCGGATTACAGGGAAGCAGCTGGTGA
 CTACACAGCGCAGCCGCTGTTCTGCTGGACCCCGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTG
 CTGTTTGAAGTGGGAGAGGGCTCTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCC
 TGCTGACAGGCTCGGAGCTCCCAAAGCCAAGGACCCCACTGTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200314 representing NM_005526
 Red=Cloning site Green=Tags(s)

MDLPVGPAAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGFQFAKEVLPKYFKHNNMASFV
 RQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPCFLRGQEQLLENIKRKVTSVSTLKSEDIKIRQDSVTKL
 LTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVKRKIP
 LMLNDSGSAHSMPKYSRQFSLEHVHSGPYSAPSPAYSSSLYAPDAVASGPIISDITELAPASPMAS
 GGSIDERPLSSSPLVRVKEPPSPQSPRVEEASPRPSSVDTLLSPTALIDSILRESEAPASVTALTD
 ARGHTDTEGRPPSPPTSTPEKCLSVACLKDNELSDHLDAMSNLQMLSSHGFSVDTALLDLDFSP
 SVTVPMSLPDLDSLASIQELLSPEPPRPEAENSSPDSGKQLVHYTAQPLFLLDPGSVDTGSNDLPV
 LFELGEGSYFSEGDFEAEDPTISLLTGSEPPKAKDPTVS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

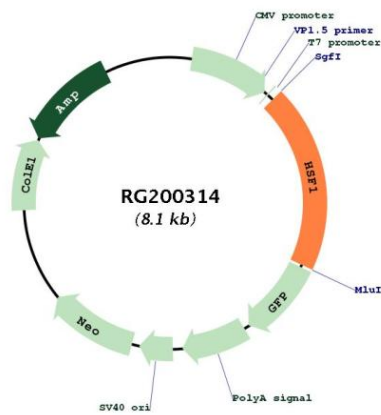
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005526.4](#)

RefSeq Size: 2166 bp
RefSeq ORF: 1590 bp
Locus ID: 3297
UniProt ID: [Q00613](#)
Cytogenetics: 8q24.3
Domains: HSF
Protein Families: Transcription Factors
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:



Circular map for RG200314