

## Product datasheet for **RG210751**

### **HSF2 (NM\_004506) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HSF2 (NM_004506) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSF2
Synonyms:	HSF 2; HSTF 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210751 representing NM\_004506  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCAGAGTTCGAACGTGCCGGCTTCTCAGCAAGCTGTGGACGCTTGTGGAGGAAACCCACACTA  
 ACGAGTTCATCACCTGGAGCCAGAATGGCCAAAGTTTTCTGGTCTTGGATGAGCAACGATTTGCAAAAGA  
 AATTCTTCCCAAATATTTCAAGCACAATATATGGCAAGCTTTGTGAGGCAACTGAATATGTATGGTTTC  
 CGTAAAGTAGTACATATCGACTCTGGAATTGTAAGCAAGAAAGAGATGGTCTGTAGAATTTAGCATC  
 CTTACTTCAAACAAGGACAGGATGACTTGTGGAGAACATTAAGGAAGGTTTCATCTTCAAACCAGA  
 AGAAAATAAAATTCGTCAGGAAGATTTAACAAAAATTATAAGTAGTGCTCAGAAGTTTCAGATAAAACAG  
 GAAACTATTGAGTCCAGGCTTTCTGAATTAAGGAAGTGAAGTCCCTTTGGAAGGAGGTGCAGAAT  
 TACGAGCAAAGCATGCACAACAGCAACAAGTTATTCGAAAGATTGTCCAGTTTATTGTTACATTGGTTCA  
 AAATAACCAACTTGTGAGTTTAAACGTAAAAGGCCTCTACTTCTAAACACTAATGGAGCCAAAAGAAG  
 AACCTGTTTCAGCACATAGTCAAAGAACCAACTGATAATCATCATATAAGTTCCACACAGTAGGACTG  
 AAGGTTTAAAGCCAAGGGAGAGGATTTAGATGACATCATTATTTATGATGTTACTGATGATAATGCAGA  
 TGAAGAAAATATCCCAGTTATTCAGAAACTAATGAGGATGTTATATCTGATCCCTCCAAGTGTAGCCAG  
 TACCCTGATATTGTCATCGTTGAAGATGACAATGAAGATGAGTATGCACCTGTCATTAGAGTGGAGAGC  
 AGAATGAACCAGCCAGAGAATCCCTAAGTTCAGGCAGTGTGGCAGCAGCCCTCATGTCTAGTGTCTGT  
 CCAGCTAAATGGCTCATCCAGTCTGACCTCAGAAGATCCAGTACCAGTATGATGGATCCATTTTGAATGAT  
 AACATCAATCTTTGGGAAAGGTTGAGCTGTTGGATTATCTTGACAGTATTGACTGCAGTTAGAGGACT  
 TCCAGGCCATGCTATCAGGAAGACAATTTAGCATAGACCAGATCTCCTGGTTGATCTTTTCACTAGTTT  
 TGTGCAGATGAATCCACAGATTACATCAATAATACAAAATCTGAGAATAAGGATTAGAACTACCAAG  
 AACAAATGTAGTTCAGCCAGTTTTCGGAAGAGGGAAGAAAATCTAAATCAAACAGATAAGCAGCTTATCC  
 AGTATACCGCCTTTCCACTTCTTGCATTCTCGATGGGAACCCTGCTTCTTCTGTTGAACAGGCGAGTAC  
 AACAGCATCATCAGAAGTTTGTCTCTGTAGATAAACCCATAGAAGTTGATGAGCTTCTGGATAGCAGC  
 CTAGACCAGAACCAACCAAGTAAGCTTGTTCGCTGGAGCCATTGACTGAAGCTGAAGCTAGTGAAG  
 CTACACTGTTTTATTTATGTGAAGTCTGCTCCTGCACCTCTGGATAGTGATATGCCACTTTTAGATAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210751 representing NM\_004506  
 Red=Cloning site Green=Tags(s)

MKQSSNVPFLSKLWTLVEETHNEFITWSQNGQSFLVLDEQRFKEILPKYFKHNMASFVRQLNMYGF  
 RKVVHIDSGIVKQERDGPVEFQHPYFKQGQDLDLENIKRKYSSSKPEENKIRQEDLTKIISSAQKVIKQ  
 ETIESRSELKSENESESLWKEVSELRKHAQQQVIRKIVQFIVTLVQNNQLVSLKRKRPDLLNTNGAQKK  
 NLFQHIKVEPTDNHHHKVPHSRTEGLKPRERISDDIIIVDVTDDNAEENIPVIPETNEDVISDPNCSQ  
 YPDIVIVEDDNEDEYAPVIQSGEQNEPARESLSSGSDGSSPLMSSAVQLNGSSSLTSEDVPTMMDLND  
 NINLLGKVELLDYLDSDSLEDQAMLSGRQFSIDPDLLVDFLFTSSVQMNPTDYINNTKSENKLETTK  
 NNVVQPVSEEGRKSQKPKQLIQYAFPLLAFLDGNPASSVEQASTTASSEVLSSVDPKPIEVEDELLDSS  
 LDPEPTQSKLVRLEPLTEAEASEATLFYLCELAPAPLDSMPLDLS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_004506

**ORF Size:** 1608 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\\_004506.4](#)

**RefSeq Size:** 2444 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 3298

**UniProt ID:** [Q03933](#)

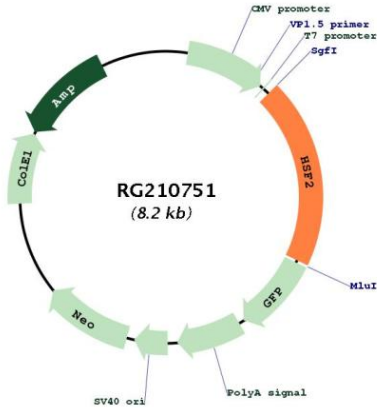
**Cytogenetics:** 6q22.31

**Domains:** HSF

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene belongs to the HSF family of transcription factors that bind specifically to the heat-shock promoter element and activate transcription. Heat shock transcription factors activate heat-shock response genes under conditions of heat or other stresses. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

**Product images:**



Circular map for RG210751