

Product datasheet for **RG226533**

HSF2 (NM_001135564) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | HSF2 (NM_001135564) 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:

>RG226533 representing NM_001135564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCAGAGTTCGAACGTGCCGGCTTCTCCTCAGCAAGCTGTGGACGCTTGTGGAGGAAACCCACACTA
 ACGAGTTCATCACCTGGAGCCAGAATGGCCAAAGTTTTCTGGTCTTGGATGAGCAACGATTTGCAAAGA
 AATTCTTCCCAAATATTTCAAGCACAATATATGGCAAGCTTTGTGAGGCAACTGAATATGTATGGTTTC
 CGTAAAGTAGTACATATCGACTCTGGAATTGTAAGCAAGAAAGAGATGGTCTGTAGAATTTAGCATC
 CTTACTTCAAACAAGGACAGGATGACTTGTGGAGAACATTAAGGAAGGTTTCATCTTCAAACCAGA
 AGAAAATAAAATTCGTCAGGAAGATTTAACAAAAATTATAAGTAGTGCTCAGAAGTTTCAGATAAAACAG
 GAAACTATTGAGTCCAGGCTTTCTGAATTAAGGAAGTGAAGTCCCTTTGGAAGGAGGTGTCAGAAT
 TACGAGCAAAGCATGCACAACAGCAACAAGTTATTCGAAAGATTGTCCAGTTTATTGTTACATTGGTTCA
 AAATAACCAACTTGTGAGTTTAAACGTAAAAGGCCTCTACTTCTAAACACTAATGGAGCCCAAAGAAG
 AACCTGTTTCAGCACATAGTCAAAGAACCAACTGATAATCATCATATAAAGTTCCACACAGTAGGACTG
 AAGGTTTAAAGCCAAGGGAGAGGATTTCCAGATGACATCATTATTTATGATGTTACTGATGATAATGCAGA
 TGAAGAAAATATCCCAGTTATCCAGAACTAATGAGGATGTTATATCTGATCCCTCCAAGTGTAGCCAG
 TACCATGATATTGTCATCGTTGAAGATGACAATGAAGATGAGTATGCACCTGTCATTAGAGTGGAGAGC
 AGAATGAACCAGCCAGAGAATCCCTAAGTTCAGGCAGTGTGGCAGCAGCCCTCATGTCTAGTGTCTGT
 CCAGCTAAATGGCTCATCCAGTCTGACCTCAGAAGATCCAGTACCAGTATGATGATGATGATGATGATGAT
 AACATAACTCTTTTGGGAAAGGTTGAGCTGTTGGATTATCTTGACAGTATTGACTGCAGTTAGAGGACT
 TCCAGGCCATGCTATCAGGAAGACAATTTAGCATAGACCCAGATCTCTGGTTGATTCTGAGAATAAAGG
 ATTAGAACTACCAAGAACAATGTAGTTCAGCCAGTTTCGGAAGAGGGAAGAAAATCTAAATCCAAACCA
 GATAAGCAGCTTATCCAGTATACCGCTTCCACTTCTTGCATTCTCGATGGGAACCCTGCTTCTCTG
 TTGAACAGGCGAGTACAACAGCATCATCAGAAGTTTTGCCTCTGTAGATAAACCCATAGAAGTTGATGA
 GCTTCTGGATAGCAGCCTAGACCCAGAACCAACCCAAAGTAAAGCTTGTTCGCCTGGAGCCATTGACTGAA
 GCTGAAGCTAGTGAAGCTACACTGTTTTATTTATGTGAAGTGTCTCTGCACCTCTGGATAGTATGATGC
 CACTTTTAGATAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226533 representing NM_001135564
 Red=Cloning site Green=Tags(s)

MKQSSNVPFLSKLWTLVEETHNEFITWSQNGQSFLVLDEQRFKEILPKYFKHNMASFVRQLNMYGF
 RKVVHIDSGIVKQERDGPVEFQHPYFKQGQDLDLENIKRKYSSSKPEENKIRQEDLTKIISSAQKVQIKQ
 ETIESRSELKSENESESLWKEVSELRKHAQQQVIRKIVQFIVTLVQNNQLVSLKRKRPDLLNTNGAQKK
 NLFQHIIVKEPTDNHHKVPHSRTEGLKPRERISDDIIIVDVTDDNAEENIPVIPETNEDVSDPSNCSQ
 YHDIVIVEDDNEDEYAPVIQSGEQNEPARESLSSGSDGSSPLMSSAVQLNGSSSLTSEDVPTMMDLND
 NINLLGKVELLDYLDSDSLEDQAMLSGRQFSIDPDLLVDSKNGLETTKNNVVQPVSEEGRSKSKP
 DKQLIQYAFPLLAFLDGNPASSVEQASTTASSEVLSSVDKPIEVDELDDSSLDPEPTQSKLVRLEPLTE
 AEASEATLFYLCELAPAPLDSMPLDLS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135564

ORF Size: 1554 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_001135564.1](#), [NP_001129036.1](#)

RefSeq Size: 2643 bp

RefSeq ORF: 1557 bp

Locus ID: 3298

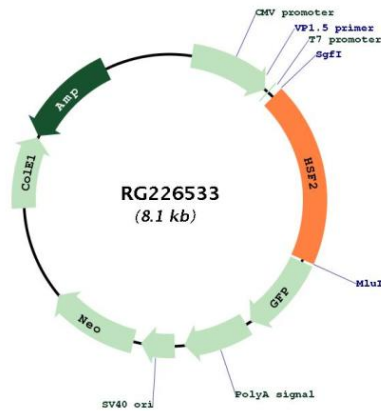
UniProt ID: [Q03933](#)

Cytogenetics: 6q22.31

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 RG226533