

Product datasheet for **RG216205**

HSF4 (NM_001538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HSF4
Synonyms:	CTM; CTRCT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG216205 representing NM_001538
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTGCAGGAAGCGCCAGCTGCGCTGCCACGGAGCCAGGCCCCAGCCCCGTGCCTGCCTTCCTCGGCA
 AGCTATGGGCGCTGGTGGGGGACCCAGGCACAGACCACCTGATCCGCTGGAGCCGAGCGGGACCAAGTTT
 CCTCGTAAGCGACCAAGACCGCTTTCGCCAAGGAAGTGTGCCCCAGTATTTCAAGCATAGCAACATGGCG
 AGCTTCGTGCGCAACTCAACATGTACGGTTTTCGAAGGTGGTGAAGTCAAGCAGGCGCGGCTGCTTA
 GGCCGGAGCGCGACCACTCGAGTTCAGCACCCGAGCTTCGTGCGCGGCCGCGAGCAGCTACTGGAGCG
 CGTGCGGCGCAAGGTGCCCGCGCTGCGCGGCGACGACGCGCCGTGGCGGCCGAGGACCTGGGTCCACTA
 CTGGGCGAGGTGCAGGCTTTGCGGGGAGTGCAGGAGAGCACCGAGGCGCGGCTGCGGGAGCTCAGGCAGC
 AGAACGAGATCTTGTGGCGGGAGGTGGTGACACTTCGCGAGAGCCACGGTCAGCAGCACCGGGTCATTGG
 CAAGCTGATCCAGTGTCTTTTGGGCCACTTCAGGCGGGCCGAGCAATGCAGGAGGCAAGAGAAAGCTG
 TCCCTGATGCTGGATGAGGGGAGCTCATGCCAACACCTGCCAAGTTCAACACCTGCCCTCTACCTGGTG
 CCCTTCTGCAGGACCCCTACTTCATCCAGTCGCTTCTACTACAGCCTCTCCAGAGACAAATTTGGGC
 CTTAGCCCTCACAGGGCCAGGGGCCCATCATCTCTGACATCCCAGAAGACTCTCCATCCCCTGAGGGGA
 CCAGGCTTTCTCCCTCCAGTATGGCAGGAGCCCCCGCCACTGCCTGTGGCTGTGGTGCAGGCCATCC
 TGGAAAGGAAAGGAGCTTCAGCCCCGAGGGGCCAGGAATGCCCAACAGCCTGAACCAAGGGATCCCAG
 GGAGATACCTGACAGGGGCTCTGGGCTGGAAGCGGGGACAGGAGCCAGAGAGTCTGCTGCCTCCG
 ATGCTGCTTCAGCCCCCTCAAGAAAGTGTGAACCTGCAGGGCCTCTAGATGTGCTGGGCCCACTCTCC
 AAGGGCGAGAATGGACCTGATGGACTTGGACATGGAGCTGTCCTTGATGCAGCCCTTGGTTCCAGAGCG
 GGGTGAGCCTGAGCTGGCGGTCAAGGGGTTAAATTCTCCAAGCCAGGGAAGGACCCACGCTCGGGGCC
 CCACTCCTGCTGGATGTCCAGGCGGCTTGGGAGGCCAGCCTGGGCCTGCCTGGGGCTTTAACCATTT
 ATAGCACTCCTGAGAGCCGACTGCCTCTACTTGGGCCGGAAGCCAGTCCCTCCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216205 representing NM_001538
 Red=Cloning site Green=Tags(s)

MVQEAPAAPTEPGSPVPAFLGKLWALVGDPGDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMA
 SFVRQLNMYGFRKVVVIEQGGLLRPERDHVEFQHPFVRGREQLLERVRRKVPALRGDDGRWRPEDLGR
 LGEVQALRGVQESTEARLRELQQNEILWREVVTLRQSHGQQHRVIGKLIQCLFGPLQAGPSNAGGKRKL
 SLMLDEGSSCPTPAKFNTCPPLGALLQDPYFIQSPSTYSLSQRIWALALTGPAPSSLTSQKTLHPLRG
 PGFLPPVMAGAPPLPVAVVQAILEGKGSFSPEGRNAQQPEPGDPREIPDRGPLGLESGRSPESLLPP
 MLLQPPQESVEPAGPLDVLGPSLQGREWTMLDLMELSLMQPLVPERGEPELAVKGLNSPSPGKDPTLGA
 PLLLDVQAALGGPALGLPGALTIYSTPESRTASYLGPEASPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001538

ORF Size: 1389 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:

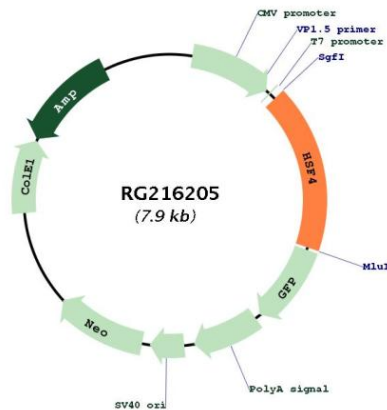
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001538.1](#), [NP_001529.1](#)

RefSeq Size:	1555 bp
RefSeq ORF:	1389 bp
Locus ID:	3299
UniProt ID:	Q9ULV5
Cytogenetics:	16q22.1
Domains:	HSF
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	Heat-shock transcription factors (HSFs) activate heat-shock response genes under conditions of heat or other stresses. HSF4 lacks the carboxyl-terminal hydrophobic repeat which is shared among all vertebrate HSFs and has been suggested to be involved in the negative regulation of DNA binding activity. Two alternatively spliced transcripts encoding distinct isoforms and possessing different transcriptional activity have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216205