

Product datasheet for **RC219247**

HSF4 (NM_001040667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSF4 (NM_001040667) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSF4
Synonyms:	CTM; CTRCT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219247 representing NM_001040667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGGAAGCGCCAGCTGCGCTGCCACGGAGCCAGGCCCGCCAGCCCGTGCCTGCCTTCTCGCAAGC
 TATGGGCGCTGGTGGGGACCCAGGCACAGACCCTGATCCGCTGGAGCCCGAGCGGGACAGTTTCTT
 CGTAAGCGACCAGAGCCGTTTCGCCAAGGAAGTGTGCCCCAGTATTTCAAGCATAGCAACATGGCGAGC
 TTCGTGCGCCAACCAACATGTACGGTTTTCGAAGGTGGTGGAGCATCGAGCAGGGCGGCCTGCTTAGGC
 CGGAGCGCGACCAGTCCGAGTTCAGCACCCGAGCTTCGTGCGCGGCCGAGCAGCTACTGGAGCGCGT
 GCGGGCAAGGTGCCCGCTGCGCGGCGACGACGGCCGCTGGCGCCGGAGGACCTGGGTGACTACTG
 GCGAGGTGCAGGCTTTGCGGGAGTGCAGGAGACCCGAGGCGCGGCTGCGGGAGCTCAGGCAGCAGA
 ACGAGATCTTGTGGCGGGAGGTGGTACACTTCGGCAGAGCCACGGTCAGCAGCACCGGGTCATTGGCAA
 GCTGATCCAGTGTCTCTTTGGGCCACTTACGGCGGGGCCGAGCAATGCAGGAGGCAAGAGAAAGCTGCC
 CTGATGCTGGATGAGGGGAGCTCATGCCAACACCTGCCAAGTTCAACACCTGCCCTCTACTTGGTGCC
 TTCTGCAGGACCCCTACTTCATCCAGTCGCTCTCCAGAGACAAATTTGGGCTTAGCCCTCACAGGGC
 CAGGGGCCCATCATCTGACATCCCAGAAGACTCTCCATCCCCTGAGGGGACCAGGCTTTCTCCCTCC
 AGTGATGGCAGGAGGAGAAGGGCTGGCACTGCTCAAAGAAGAGCCGGCCAGTCCAGGGGGGGATGGCG
 AGGCCGGGCTGGCCCTGGCCCCAAACGAGTGTGACTTCTGCGTGACAGCCCCCGCCACTGCCTGTGGC
 TGTGGTGCAGGCCATCCTGGAAGGAAAGGGAGCTTACGCCCCGAGGGGCCAGGAATGCCAACAGCCT
 GAACCAGGGGATCCAGGGAGATACCTGACAGGGGGCCTCTGGGCTGGAAGCGGGGACAGGACCCAG
 AGAGTCTGCTGCCTCCGATGCTGCTTACGCCCTCAAGAAAGTGTGAACTGCAGGGCCTCTAGATGT
 GCTGGGGCCCACTCCAAGGGCGAGAATGGACCCTGATGGACTTGGACATGGAGCTGTCCTTGATGCAG
 CCCTTGGTTCCAGAGCGGGGTGAGCCTGAGCTGGCGGTCAAGGGTTAAATTTCTCAAGCCAGGGAAGG
 ACCCCACGCTCGGGGCCCACTCCTGCTGGATGTCCAGGCGGCTTGGGAGGCCAGCCCTGGGCTGCC
 TGGGGCTTAACCATTTATGACTCTCTGAGAGCCGGACTGCCTCTACTTGGGCCCGGAAGCCAGTCCC
 TCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219247 representing NM_001040667
 Red=Cloning site Green=Tags(s)

MQEAPAAPLPEPGSPVPAFLGKLWALVGDPTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMAS
 FVRQLNMYGFRKVVVIEQGGLLRPERDHVEFQHPSPFVRGREQLLERVRRKVPALRGDDGRWRPEDLGRLL
 GEVQALRGVQESTEARLRELQQNEILWREVVTLRQSHGQQHRVIGKLIQCLFGPLQAGPSNAGGKRKLS
 LMLDEGSSCPTPAKFNTCPLPGALLQDPYFIQSPLPETNLGLSPHRARGPIISDIPEDSPSPEGTRLS
 SDGRREKGLALLKEEPASPGDGEAGLALAPNECDFCVTAPPPLPVAVVQAILEGKGSFSPEGPRNAQQP
 EPGDPREIPDRGPLGLESGRSPESLLPPMLLQPPQESVEPAGPLDVLGPSLQGREWTLMDLDMELSLMQ
 PLVPERGEPELAVKGLNSPSGKDP TLGAPLLLDVQAALGGPALGLPGALTIYSTPESRTASYLGPEASP
 SP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6160_h05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001040667

ORF Size: 1476 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_001040667.3](#)

RefSeq Size: 2535 bp

RefSeq ORF: 1479 bp

Locus ID: 3299

UniProt ID: [Q9ULV5](#)

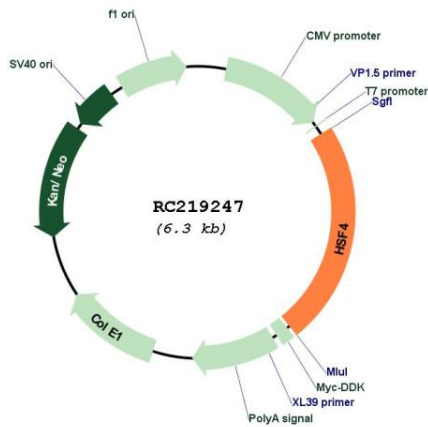
Cytogenetics: 16q22.1

Protein Families: Druggable Genome, Transcription Factors

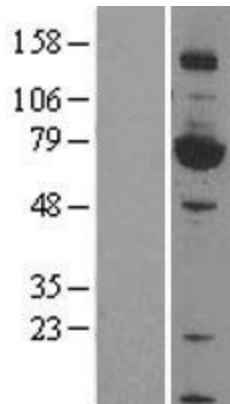
MW: 52.8 kDa

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 RC219247



Western blot validation of overexpression lysate (Cat# [LY400428]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219247 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).