

## Product datasheet for **MR221921**

### **Hsf4 (NM\_011939) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hsf4 (NM_011939) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsf4
Synonyms:	HSF 4; HSTF 4; HSTF4; ldis1; mHSF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221921 representing NM\_011939  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGAAGCGCCAGCTGCGCTGCCACGGAGCCAGGCCAGCCCGGTACCTGCCTTCCTCGGAAGC  
 TATGGGCGCTGGTAGGCGACCCAGGCACCGACCACCTCATCCGCTGGAGCCCGAGTGGCACCAGCTTCCT  
 CGTAAGTGATCAGAGCCGCTTCGCCAAGGAAGTCTGCCCCAGTACTTCAAGCACAGCAACATGGCGAGC  
 TTTGTTCCGCAACTCAACATGTATGGTTTTCGAAGGTGGTGGAGCATCGAGCAAGGTGGCCTGCTCAGAC  
 CAGAGCGTGACCAGTTGAGTTTCAGCATCCGAGCTTCGTGCGAGGCCGCGAGCAGCTACTGGAGCGGT  
 GCGCCGAAGGTACCTGCGCTGCGAGGCGATGACAGTGGTCCGGGAGACCTGAGCCGACTGCTG  
 GGAGAGGTGCAAGCTTTGAGAGGAGTGCAGGAGACCGAGGCCAGGCTGCAGGAACCTCAGGCAGCAGA  
 ACGAGATCTTGTGGCGAGAGGTGGTAACTTTGGCGCAGAGCCACAGTACAGCAGCACCGGGTATCGGCAA  
 GCTAATCCAGTGCCTGTTGGGCCACTTCAGACAGGGCCAGCAGTACAGGAGCCAAGAGAAAATGTCC  
 CTAATGCTAGATGAGGGGAGCGCTGTTGAGCATCTGCCAAATCAATGCCTGCCCTGTGTCTGGTGCTC  
 TCCTCCAGGACCCCTACTTTATCCAGTCCGCTTCTCCTTGACGCCCTCCAGAGACCACGTTGGGCCTC  
 AGCCCTCACAGGGCCAGAGGGCCATCATCTCTGACATCCAGAAGATTCTCATCTCCTGAAGGACACA  
 GGCTTTCTCCCTCCGGTGGTTCAGGAGCACCCACCCTGCCCGTGGCTGTGGTGCAGGCCATCCTGG  
 AAGGAAAGGGGAGCTACAGCCCTGAGGGGCCAGGAGTGTACAACAGCCTGAACCAAGGGGCCCCAGGGA  
 GGTACCTGACAGGGGAACCTGGGCTGGATCGGGTAACCGGAGCCAGAGAGTCTGCTACCCCAATG  
 CTGCTTCGGCTGCCCTGAAACTCTGGAGCCCGTGGCACCTGTGGATGTGCTCGGCCCTAGCCTGCATG  
 GACGGAATGGACCTTGATGGATCTGGACATGGAGTTGTCTCTGATGCAGCCCTTGGCACCAGAGACGGA  
 TGAAGCAGAGCTGACGGTCAAGGAGTTGAATTCTTCTGGTGTAGGGAAAGACCACACACTGGGAACCTCCA  
 CTCATGCTAGATGTCCAGGCGGATTTGGAGGTGCAGCCCTGTCTGTGCCTGGGGCTTTAACCTGTACA  
 ACGTCACCGAGAGCAACGCCCTCCTACTTGGATCTGGAGCCAGTCCCTCCTCTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221921 representing NM\_011939  
 Red=Cloning site Green=Tags(s)

MQEAPAALPTEPGPSPVPAFLGKLWALVGDPTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMAS  
 FVRQLNMYGFRKVVVIEQGGLLRPERDHVEFQHPSPFVRGREQLLERVRRKVPALRGDDSRWRPEDLSRLL  
 GEVQALRGVQESTEARLQELRQNEILWREVVTLRQSHSQHRVIGKLIQCLFGPLQTGPSSTGAKRKL  
 LMLDEGSACSASAKFNACPVSGALLQDPYFIQSPSPSPQRPRWASALTGPEGSSLTSQKILHLLKDT  
 GFLPPVVAGAPPLPVAVVQAILEGKGSYSEGPSPSVQPEPRGPREVDPDRGTLGLDRGNRSPESLLPPM  
 LLRPAPETLEPVAPVDVLPVSLHGREWTLMDLMELESLMQPLAPETDEAELTVKELNSSGVGKDHTLGP  
 LMLDVQADLEGAALSVPGALTLVNVTESNASYLDPGASPSPP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9045\\_h10.zip](https://cdn.origene.com/chromatograms/mm9045_h10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_011939

**ORF Size:** 1386 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](mailto: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\\_011939.3](#), [NP\\_036069.1](#)

RefSeq Size: 1576 bp

RefSeq ORF: 1389 bp

Locus ID: 26386

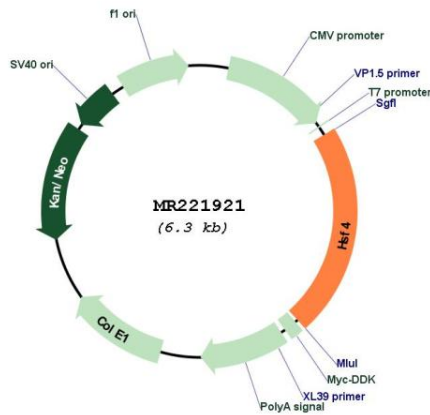
UniProt ID: [Q9R0L1](#)

Cytogenetics: 8 D3

MW: 50.7 kDa

Gene Summary: DNA-binding protein that specifically binds heat shock promoter elements (HSE). The HSF4A isoform represses transcription while the HSF4B isoform activates transcription. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221921