

Product datasheet for **MR230213**

Hsf4 (NM_001256042) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsf4 (NM_001256042) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsf4
Synonyms:	HSF 4; HSTF 4; HSTF4; ldis1; mHSF4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230213 representing NM_001256042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGGAAGCGCCAGCTGCGCTGCCACGGAGCCAGGCCAGCCCGGTACCTGCCTTCTCGCAAGC
 TATGGGCGCTGGTAGGCGACCCAGGCACCGACCACCTCATCCGCTGGAGCCCGAGTGGCACCAGCTTCT
 CGTAAGTGATCAGAGCCGCTTCGCCAAGGAAGTGTGCCCCAGTACTTCAAGCACAGCAACATGGCGAGC
 TTTGTTCCGCAACTCAACATGTATGGTTTTCGAAGGTGGTGGAGCATCGAGCAAGGTGGCCTGCTCAGAC
 CAGAGCGTGACCAGTTGAGTTTCAGCATCCGAGCTTCGTGCGAGGCCGCGAGCAGCTACTGGAGCGCT
 GCGCCGCAAGGTACCTGCGCTGCGAGGCGATGACAGTCGATGGCGTCCGGAAGACCTGAGCCGACTGCTG
 GGAGAGGTGCAAGCTTTGAGAGGAGTGCAGGAGACACGGAGGCACGGCTGCAGGAACCTCAGGCAGCAGA
 ACGAGATCTTGTGGCGAGAGGTGGTAACTTTGCGGCAGAGCCACAGTCAGCAGCACCGGGTATCGGCAA
 GCTAATCCAGTGCCTGTTGGGCCACTTCAGACAGGGCCAGCAGTACAGGAGCCAAGAGAAAAGTCC
 CTAATGCTAGATGAGGGGAGCGCTGTTGAGCATCTGCCAAATCAATGCCTGCCCTGTGTCTGGTGCTC
 TCTCCAGGACCCCTACTTTATCCAGTCGCCCCCTCCAGAGACCAGTTGGGCTCAGCCCTCACAGGGC
 CAGAGGGCCCATCATCTGACATCCCAGAAGATTCTCCATCTCCTGAAGGACACAGGCTTTCTCCCTCC
 GGTGGTTGCGAGGAGGTGAAGGGCCTGGCACTGCTCAAAGAAGAGCCGGCCAGTCCAGGGGGGGATGGCG
 AGGCCGGGCTGGCCCTGGCCCCAAACGAGTGTGACTTCTGCGTGACAGCACCCCCACCGCTGCCCGTGGC
 TGTGGTGCAGGCCATCCTGGAAGGAAAGGGAGCTACAGCCCTGAGGGGCCAGGAGTGTACAACAGCCT
 GAACCAAGGGGCCAGGGAGGTACCTGACAGGGGAACCTGGGCTGGATCGGGGTAAACCGGAGCCAG
 AGAGTCTGCTACCCCAATGCTGCTTCGGCTGCCCTGAAACTCTGGAGCCCGTGGCAGCTGTGGATGT
 GCTCGGCCCTAGCTGCATGGACGAGAATGGACCTTGATGGATCTGGACATGGAGTTGTCTCTGATGCAG
 CCCTTGGCACCAGAGACGGATGAAGCAGAGCTGACGGTCAAGGAGTTGAATTTCTTCTGGTGTAGGAAAAG
 ACCACACACTGGGAACCTCACTCATGCTAGATGTCCAGGCGGATTTGGAGGGTGCAGCCCTGTCTGTGCC
 TGGGGCTTTAACCTGTACAACGTACCGAGAGCAACGCCTCCTACTTGGATCTGGAGCCAGTCCCTCC
 TCTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230213 representing NM_001256042
 Red=Cloning site Green=Tags(s)

MQEAPAALPTEPGSPVPAFLGKLWALVGDPGTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMAS
 FVRQLNMYGFRKVVVIEQGGLLRPERDHVEFQHPFVVRGREQLLERVRRKVPALRGDDSRWRPEDLSRL
 GEVQALRGVQESTEARLQELRQONEILWREVVTLRQSHSQQHRVIGKLIQCLFGPLQTGPSSTGAKRKL
 LMLDEGSACSASAKFNACPVSGALLQDPYFIQSPLPETTLGLSPHRARGPIISDIPEDSPSPEGHRLSP
 GGCRRVKGLALLKEEPASPGDGEAGLALAPNECDFCVTAPPPLPVAVVQAILEGKGSYSPEGPRSVQPP
 EPRGPREVDPDRGTLGLDRGNRSPELLPPMLLRPAPETLEPVAPVDVLPVSLHGREWTLMDLDMELSLMQ
 PLAPETDEAELTVKELNSSGVGKDHTLGTPLMLDVQADLEGAALSVPGALTLVNVTESNASYLDPGASPS
 SP

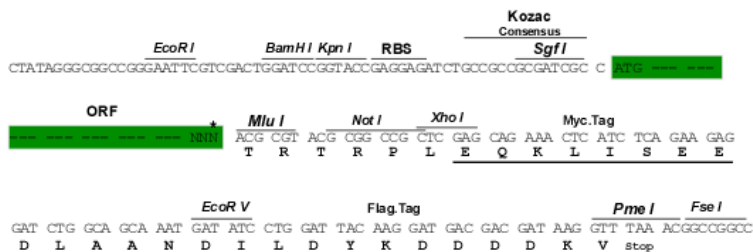
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

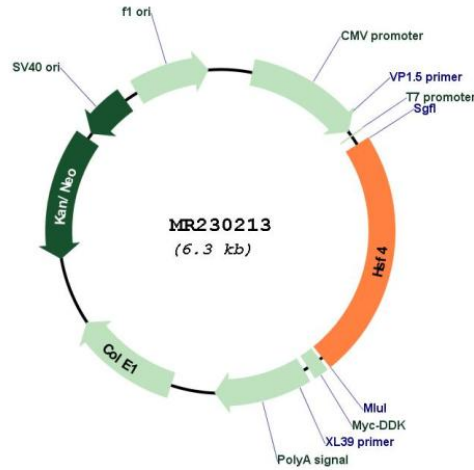
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001256042

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:	<ol style="list-style-type: none">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:	<u>NM_001256042.1</u> , <u>NP_001242971.1</u>
RefSeq Size:	1739 bp
RefSeq ORF:	1479 bp
Locus ID:	26386
UniProt ID:	<u>Q9R0L1</u>
Cytogenetics:	8 D3
MW:	53.7 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]