

Product datasheet for **MR208286**

Hsf2 (NM_008297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsf2 (NM_008297) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsf2
Synonyms:	A1661205
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208286 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCAGAGTTCCAACGTGCCGCTTCTCAGCAAGCTGTGGACGCTTGTGGAGGAAACCCACACCA
 ACGAGTTCATCACCTGGAGTCAGAAATGGACAAAGTTTTCTGGTCTTGATGAGCAAAGATTTGCAAAGGA
 AATTCTTCTTAAGTACTTCAAACACAATAACATGGCGAGCTTTGTGAGACAACTAAATATGTATGGCTTC
 CGAAAAGTAGTGCATATCGAATCTGGAATTATCAAACAGGAAAGAGATGGCCCTGTTGAATTTAGCATC
 CTTATTTCAAGCAAGGCCAGGATGACCTGTTGGAGAACATTAAGGAAGGTTTCATCTTCAAACCCAGA
 GGAAAATAAAATTCGTCAGGAAGATTTAACAAAAATTATTAGTAGTGCTCAGAAGTTCAAATAAAAAACA
 GAAACTATTGAGTCCAGGCTTTCAGAATTAAGGAAGTGAATCCCTTTGGAAGGAGGTGTCAGAAC
 TAAGAGCAAAGCATGCCAGCAGCAACAAGTTATTCGGAAGATTGTCAGTTTATTGTTACATTGGTTCA
 GAATAATCAACTTGTGAGTTTAAACGTAAAAGGCCTCTACTTCTAAACACAAATGGAGCCCCAAAGAAG
 AATCTATATCAGCACATAGTCAAAGAACCAACTGATAATCACCATCATAAAGTTCCACACAGCAGGACTG
 AAGGTTTAAAGTCAAGAGAACGGATTTCCAGATGACATAATTATTTATGATGTTACTGACGATAATGTGGA
 TGAAGAAAATATTCAGTTATTCAGAAACAAATGAGGATGTTGTAGTGGATTCCCTCAACCCAGTATCCT
 GACATTGTCATTGTTGAAGATGACAACGAGGATGAGTATGCTCCTGTCATTGAGAGTGGAGAGCAGAGTG
 AACCCAGCCAGAGAACCCTTACGTGTGGGAGTGTGTCAGCAGCAGCCCTCTCATGTCCAGTGTGTCCA
 GCTAAACGGCTCCTCCAATCTGACCTCAGACGACCCTGTGACCATGATGGACTCCATTCTGAATGACAAC
 ATTAACCTGTTAGGAAAGTTGAGCTGTTGGATTACCTTGACAGTATTGATTGCAGTTTAGAGGACTTCC
 AAGCTATGCTCTCAGGAAGACAGTTTAGCATAGACCAGATCTTCTGGTTGATTCTGAGAAATAAGGACT
 AGAAGCTACCAAGAGCAGTGTGTTCAACACGTGTCAGAAGAGGGAAGAAAATCTAAATCCAAGCCAGAC
 AAACAACCTTATCCAGTATACTGCCTTTCACCTTCTGCATTCTGGATGGAACTCTGCATTGCTATTG
 AACAGGGGAGTACAACCTGCATCGTCAGAAAGTTGTGCCTTCTGTAGATAAGCCATAGAGGTGATGAGCT
 CCTGGATAGCAGCCTGGATCCAGAACCCAGCCAGAGTAAGCTTGTCCGCCTGGAACCATTGACTGAAGCG
 GAAGCTAGTGAAGCCACACTCTTCTATTTATGTGAAGTTGCTCCTGCACCTCTGGATAGTGATATGCCGC
 TTTTAGATAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208286 protein sequence
 Red=Cloning site Green=Tags(s)

MKQSSNVP AFL SKLWTLVEETHNEFITWSQNGQSFLVLDEQRF AKEILPKYFKHNMMASFVRQLNMYGF
 RKVVHIESGI IKQERDGPVEFQHPYFKQGQD LLENIKRKVSSSKPEENKIRQEDLTKIISSAQKVQIKQ
 ETIESR LSELKSENE SLWKEVSELRAKHAQQQVIRKIVQFIVTLVQNNQLVSLKRKRPLLLNTNGAPKK
 NLYQHIVKEPTDNHHHKVPHSRTEGLKSRERISDDIIIVDVTDDNVDEENIPVIPETNEDVVVDSSNQYP
 DIVIVEDDNEDEYAPVIQSSEQSEPARPLRVGSAGSSSPLMSSAVQLNGSSNLTSDDPVTMMDSILNDN
 INLLGKVELLDYLD SIDCSLEDFQAML SGRQFSIDPDLLV DSENKGLEATKSSVVQHVSEGRKSKSKPD
 KQLIQYTAFLLAFLDGN SASAIEQGSTTASSEVVPSVDKPIEVDEL L DSSLDPEPTQSKLVRLEPLTEA
 EASEATLFYLC ELAPAPLDSMP LLLDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008297

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_008297.1](#), [NM_008297.2](#), [NM_008297.3](#), [NP_032323.2](#)

RefSeq Size: 2623 bp

RefSeq ORF: 1554 bp

Locus ID: 15500

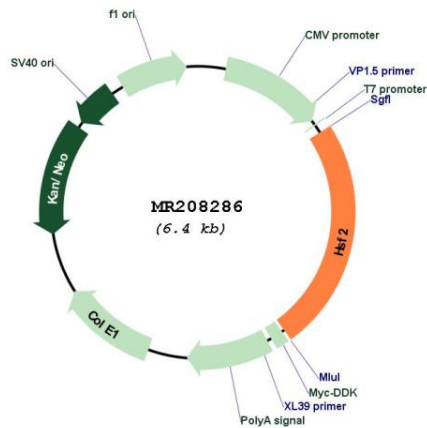
UniProt ID: [P38533](#)

Cytogenetics: 10 B4

MW: 58.2 kDa

Gene Summary: DNA-binding protein that specifically binds heat shock promoter elements (HSE) and activates transcription. In higher eukaryotes, HSF is unable to bind to the HSE unless the cells are heat shocked. HSF2 is expressed in a form that binds DNA constitutively but loses DNA binding by incubation at greater than 41 degrees C.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208286