

Product datasheet for **MG208286**

Hsf2 (NM_008297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsf2 (NM_008297) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsf2
Synonyms:	A1661205
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208286 representing NM_008297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCAGAGTTCCAACGTGCCGCTTCTCAGCAAGCTGTGGACGCTTGTGGAGAAACCCACACCA
 ACGAGTTCATCACCTGGAGTCAGAATGGACAAAGTTTTCTGGTCTTGATGAGCAAAGATTTGCAAAGGA
 AATTCTTCTTAAGTACTTCAAACACAATAACATGGCGAGCTTTGTGAGACAACTAAATATGTATGGCTTC
 CGAAAAGTAGTGCATATCGAATCTGGAATTATCAAACAGGAAAGAGATGGCCCTGTTGAATTTAGCATC
 CTTATTTCAAGCAAGGCCAGGATGACCTGTTGGAGAACATTAAGGAAGGTTTCATCTTCAAACCCAGA
 GGAAAATAAAATTCGTCAGGAAGATTTAACAAAAATTATTAGTAGTGCTCAGAAGTTCAAATAAAACAA
 GAAACTATTGAGTCCAGGCTTTCAGAATTAAGGAGGAGATGAATCCCTTTGGAAGGAGGTGTCAGAAC
 TAAGAGCAAAGCATGCCAGCAGCAACAAGTTATTCGGAAGATTGTCAGTTTATTGTTACATTGGTTCA
 GAATAATCAACTTGTGAGTTTAAACGTAAAAGGCCTCTACTTCTAAACACAAATGGAGCCCCAAAGAAG
 AATCTATATCAGCACATAGTCAAAGAACCAACTGATAATCACCATCATAAAGTTCACACAGCAGGACTG
 AAGGTTTAAAGTCAAGAGAACGGATTTAGATGACATAATTTATGATGTTACTGACGATAATGTGGA
 TGAAGAAAATATCCAGTTATCCAGAAACAAATGAGGATGTTGTAGTGGATTCCCTCAACCCAGTATCCT
 GACATTGTCAATTGTAAGATGACAACGAGGATGAGTATGCTCCTGTCATTGAGAGTGGAGAGCAGAGTG
 AACCCAGCCAGAGAACCCTTACGTGTGGGAGTGTGTCAGCAGCAGCCCTCTCATGTCCAGTGTGTCCA
 GCTAAACGGCTCCTCCAATCTGACCTCAGACGACCCTGTGACCATGATGGACTCCATTCTGAATGACAAC
 ATTAACCTGTTAGGAAAGTTGAGCTGTTGGATTACCTTGACAGTATTGATTGCAGTTTAGAGGACTTCC
 AAGCTATGCTCTCAGGAAGACAGTTTAGCATAGACCAGATCTTCTGGTTGATTCTGAGAAATAAGGGACT
 AGAAGCTACCAAGAGCAGTGTGTTCAACACGTGTCAGAAGAGGGAAGAAAATCTAAATCCAAGCCAGAC
 AAACAACCTTATCCAGTATACTGCCTTTCACCTTCTGCATTCTGGATGGAACTCTGCATTGCTATTG
 AACAGGGGAGTACAACCTGCATCGTCAGAAGTTGTGCCTTCTGTAGATAAGCCATAGAGGTGATGAGCT
 CCTGGATAGCAGCCTGGATCCAGAACCAGCCAGAGTAAGCTTGTCCGCTGGAACCATTGACTGAAGCG
 GAAGCTAGTGAAGCCACACTCTTCTATTATGTGAACCTGCTCCTGCACCTCTGGATAGTGATATGCCGC
 TTTTAGATAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208286 representing NM_008297
 Red=Cloning site Green=Tags(s)

MKQSSNPAPFLSKLWTLVEETHNEFITWSQNGQSFLVLDEQRFKEILPKYFKHNMASFVRQLNMYGF
 RKVVHIESGIKQERDGPVEFQHPYFKQGQDLDLENIKRKYSSSKPEENKIRQEDLTKIISSAQKVQIKQ
 ETIESRSELKSENESESLWKEVSELRAKHAQQQVIRKIVQFIVTLVQNNQLVSLKRKRPLLLNTNGAPKK
 NLYQHIVKEPTDNHHHKVPHSRTEGLKSRERISDDIIIVDVTDDNVDEENIPVIPETNEDVVVDSNQYP
 DIVIVEDDNEDEYAPVIQSGEQSEPARPLRVGSAGSSSPLMSSAVQLNGSSNLTSDDPVTMMSILNDN
 INLLGKVELLDYLDSDCSLEDFQAMLSGRQFSIDPDLLVDSENKLEATKSSVVQHVSEGRKSKSKPD
 KQLIQYTAPELLAFLDGNASASIEQGSTTASSEVVPSVDKPIEVDELDDSSLDPEPTQSKLVRLEPLTEA
 EASEATLFYLCELAPAPLSDMPLLDL

TRTRPLE - GFP Tag - V

Restriction Sites:

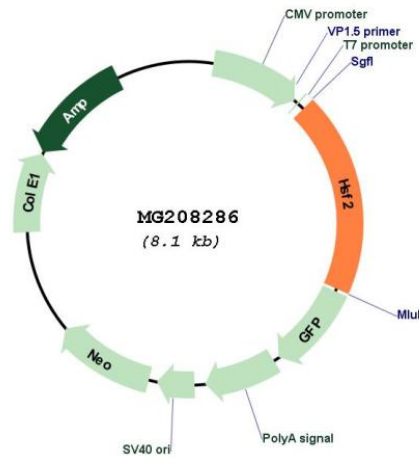
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_008297
ORF Size:	1551 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:	NM_008297.2 , NP_032323.2
RefSeq Size:	2514 bp
RefSeq ORF:	1554 bp
Locus ID:	15500
UniProt ID:	P38533
Cytogenetics:	10 B4
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]