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Product datasheet for RG219247

HSF4 (NM_001040667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSF4 (NM_001040667) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSF4
Synonyms:	CTM; CTRCT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG219247 representing NM_001040667
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGAAGCGCCAGCTGCGCTGCCCACGGAGCCAGGCCCCAGCCCCGTGCCTGCCTTCCTCGGCAAGC
TATGGGCGCTGGTGGGGGACCCAGGCACAGACCACCTGATCCGCTGGAGCCCGAGCGGGACCAGTTTCCT
CGTAAGCGACCAGAGCCGTTTCGCCAAGGAAGTGCTGCCCCAGTATTTCAAGCATAGCAACATGGCGAGC
TTCGTGCGCCAACTCAACATGTACGGTTTTCGGAAGGTGGTGAGCATCGAGCAGGGCGGCCTGCTTAGGC
CGGAGCGCGACCACGTCGAGTTCCAGCACCCGAGCTTCGTGCGCGGCCGCGAGCAGCTACTGGAGCGCGT
GCGGCGCAAGGTGCCCGCGCTGCGCGGCGACGACGGCCGCTGGCGCCCGGAGGACCTGGGTCGACTACTG
GGCGAGGTGCAGGCTTTGCGGGGAGTGCAGGAGAGCACCGAGGCGCGGCTGCGGGAGCTCAGGCAGCAGA
ACGAGATCTTGTGGCGGGAGGTGGTGACACTTCGGCAGAGCCACGGTCAGCAGCACCGGGTCATTGGCAA
GCTGATCCAGTGTCTCTTTGGGCCACTTCAGGCGGGGCCGAGCAATGCAGGAGGCAAGAGAAAGCTGTCC
CTGATGCTGGATGAGGGGAGCTCATGCCCAACACCTGCCAAGTTCAACACCTGCCCTCTACCTGGTGCCC
TTCTGCAGGACCCCTACTTCATCCAGTCGCCTCTCCCAGAGACAAATTTGGGCCTTAGCCCTCACAGGGC
CAGGGGCCCCATCATCTCTGACATCCCAGAAGACTCTCCATCCCCTGAGGGGACCAGGCTTTCTCCCTCC
AGTGATGGCAGGAGGGAGAAGGGCCTGGCACTGCTCAAAGAAGAGCCGGCCAGTCCAGGGGGGGATGGCG
AGGCCGGGCTGGCCCTGGCCCCAAACGAGTGTGACTTCTGCGTGACAGCCCCCCCGCCACTGCCTGTGGC
TGTGGTGCAGGCCATCCTGGAAGGGAAAGGGAGCTTCAGCCCCGAGGGGCCCAGGAATGCCCAACAGCCT
GAACCAGGGGATCCCAGGGAGATACCTGACAGGGGGCCTCTGGGCCTGGAAAGCGGGGACAGGAGCCCAG
AGAGTCTGCTGCCTCCGATGCTGCTTCAGCCCCCTCAAGAAAGTGTGGAACCTGCAGGGCCTCTAGATGT
GCTGGGCCCCAGTCTCCAAGGGCGAGAATGGACCCTGATGGACTTGGACATGGAGCTGTCCTTGATGCAG
CCCTTGGTTCCAGAGCGGGGTGAGCCTGAGCTGGCGGTCAAGGGGTTAAATTCTCCAAGCCCAGGGAAGG
ACCCCACGCTCGGGGCCCCACTCCTGCTGGATGTCCAGGCGGCCTTGGGAGGCCCAGCCCTGGGCCTGCC
TGGGGCTTTAACCATTTATAGCACTCCTGAGAGCCGGACTGCCTCCTACTTGGGCCCGGAAGCCAGTCCC
TCCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

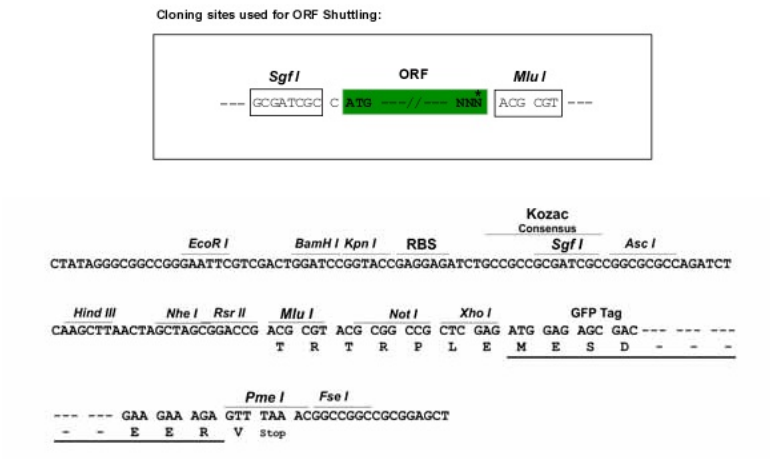
>RG219247 representing NM_001040667
Red=Cloning site Green=Tags(s)

MQEAPAALPTEPGPSPVPAFLGKLWALVGDPGTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMAS
FVRQLNMYGFRKVVSIEQGGLLRPERDHVEFQHPSFVRGREQLLERVRRKVPALRGDDGRWRPEDLGRLL
GEVQALRGVQESTEARLRELRQQNEILWREVVTLRQSHGQQHRVIGKLIQCLFGPLQAGPSNAGGKRKLS
LMLDEGSSCPTPAKFNTCPLPGALLQDPYFIQSPLPETNLGLSPHRARGPIISDIPEDSPSPEGTRLSPS
SDGRREKGLALLKEEPASPGGDGEAGLALAPNECDFCVTAPPPLPVAVVQAILEGKGSFSPEGPRNAQQP
EPGDPREIPDRGPLGLESGDRSPESLLPPMLLQPPQESVEPAGPLDVLGPSLQGREWTLMDLDMELSLMQ
PLVPERGEPELAVKGLNSPSPGKDPTLGAPLLLDVQAALGGPALGLPGALTIYSTPESRTASYLGPEASP
SP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

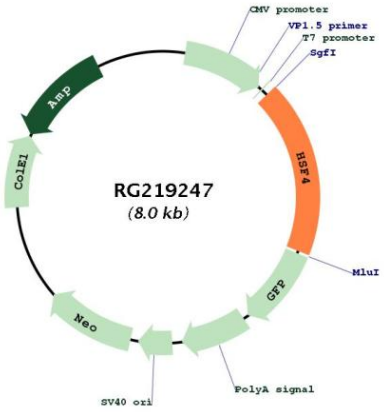


ACCN:	NM_001040667
ORF Size:	1476 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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

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 RG219247