

Product datasheet for **MR208190**

Hspa14 (NM_015765) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa14 (NM_015765) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspa14
Synonyms:	70kDa; Hsp70-4; HSP70L1; hsr.1; NST-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208190 representing NM_015765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGATCGCGCTGCACCTGGGCTGCACATCAGCCTGTGTGGCTGTCTACAAGGATGGCCGGGCCG
 ATGTGGTTGCAAATGATGCAGGGGATAGAGTCACACCAGCCATTGTTGCTTACTCGGAACGTGAACAGGT
 GGTTGGACTGGCAGCAAAACAAAGTAGAATAAGACATGTTTCAAGCACAGTAGTAAAGTAAACAGATC
 CTTGGCAGAAGCTCTGCAGATCCACAAGCTCAGAAATACATCTCAGAAAGTAAATGCTTAGTCATTGAGA
 AAAATGGGAAGTTGCGGTATGAAATAGATACAGGAGAAGAAACAAAACCTGTTAATCCAGAAGATGTTGC
 CAGACTGATATTCAGTAAATGAAAGAAACAGCGCATTCTGTCTGGGCTCAGATGCAAATGACGTGGTT
 GTCAGTGTCCATTTGACTTTGGAGAAAAGCAGAAGTCTGCTCTGGGGAGGCGGCTGGAGCTGCTGGAT
 TTAACGTGCTGCGGCTGATCCATGAGCCGTCTGCAGCTCTCCTTGCTTATGGGATTGGACAAGACCACC
 TACCGGGAAGAGCAATGTTTTGGTGTAAAGCTTGGAGGAACGTCCTTATCGCTCAGTGCATGGAAGTT
 AACAGTGGGATGTATCGGGTCTTTCCACAACACCAGTGACAACATAGGGGGCGCACATTTACAGACA
 CCTTAGCACAGTACCTGGCTTCGGAGTTCAGAGGTTGTTCAAACATGATGTGAGAGGAAATGCCCGAGC
 CATGATGAAATGATGAACAGCGCTGAAGTGGCCAAGCATTCTCTGTCAACCTTGGGAAGTGCCAACTGC
 TTTGTAGATTCCTTGATGAAGGTCAAGACTTTGATTGCAATGTGTCCAGAGCAAGATTTGAGCTGCTCT
 GTTCTCCGCTTTTTAACAAATGTACAGAAGCAATCCGGGAGCTCTTGCAGCAGACTGGATTACAGCAGA
 TGATATCAACAAGTTGTGCTGTGTGGTGGATCTCCAGAATCCAAAGCTGCAGCAGCTGATTAAGAT
 CTCTTCCAGCCGTGGACCTCTCAACTCTATCCCTCCAGATGAGGTATCCCTATTGGTGCAGCCATAG
 AAGCCGGGATTTGTTGGGAAAGAGAGCACGTCAGGAGATGACTGTGCATGATAGAGTGTCCAGCAA
 GGATATTTTAGTTAAGGGAGTGGATGAGTCAGGTGCCGACAGATTACAGTACTGTTCCCTCTGGGACC
 CCGCTGCCAGCCGAAGACAGCACACACTGCAGGCCCCCGGAGGGTGTCTTCCGTTTGCCTTGAACCT
 ATGAGTCTGAGGGGAAGAACTCTGCTAAAGAGGAGGCCAAGTTTGCACAGGTTGTAAGTCCAGGACTTAGA
 TAAAAAAGAAAATGGATTGCGTGATATATTAGCTGTTCTTACTATGAAAAGGGATGGATCTTTACAGGTG
 ACGTGCACAGACCAAGACACCGCAAGTGTGAGGCCATTACTGTTGAGGTTGCATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208190 representing NM_015765
 Red=Cloning site Green=Tags(s)

MAAIGVHLGCTSACVAVYKDGRADVANDAGDRVTPAIVAYSEREQVVGSLAAKQSRIRHVSSTVVKVKQI
 LGRSSADPQAQKYISESKLVIEKNGKLYEIDTGEETKLVNPEDEVARLIFSKMKETAHSVLSGDANDVV
 VTVPFDGKQKQKALGEAAGAAGFNVLRLIHEPSAALLAYGIGQDHTGKSNVLFKLGSTLSLSVMEV
 NSGMYRVLSTNTSDNIGGAHFTDLAQYLASEFQRLFKHDVVRGNARAMMKLMNSAEVAKHSLSTLGSANC
 FVDSLIEGQDFDCNVSRRARFELLCSPLFNKCTEAIRELLRQTGFTADDINKVVLGGSSRIPKLQQLIKD
 LFPVLDLLNSIPPDEVIPIGAAIEAGILVGKESTSGDSSVMIIECSAKDILVKGVDESGADRFTVLFPSGT
 PLPARRQHTLQAPGRVSSVCLELIESEGKNSAKEEAKFAQVVLQDLKKENGLRDLAVLTMKRDGSLQV
 TCTDQDTGKCEAITVEVAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9059_a03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_015765

ORF Size: 1527 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_015765.2](#), [NP_056580.2](#)

RefSeq Size: 1791 bp

RefSeq ORF: 1530 bp

Locus ID: 50497

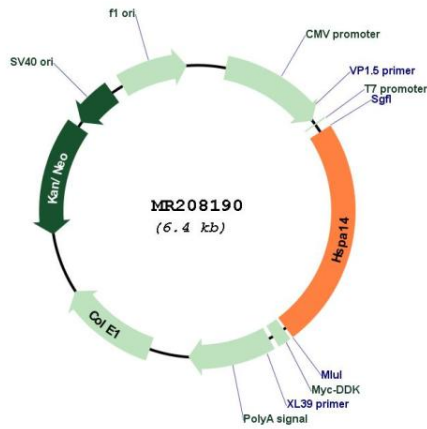
UniProt ID: [Q99M31](#)

Cytogenetics: 2 A1

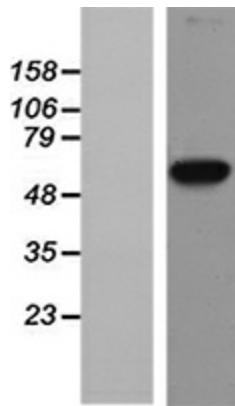
MW: 54.7 kDa

Gene Summary: Component of the ribosome-associated complex (RAC), a complex involved in folding or maintaining nascent polypeptides in a folding-competent state. In the RAC complex, binds to the nascent polypeptide chain, while DNAJC2 stimulates its ATPase activity (By similarity). [UniProtKB/Swiss-Prot Function]

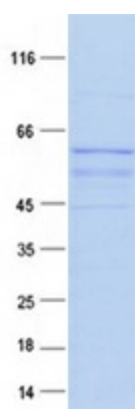
Product images:



Circular map for MR208190



Western validation with an anti-DDK antibody; L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified Hspa14 protein (Cat# [TP508190]). The protein was produced from HEK293T cells transfected with Hspa14 cDNA clone (Cat# MR208190) using MegaTran 2.0 (Cat# [TT210002]).