

## Product datasheet for **RR211007**

### Hspa8 (NM\_024351) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa8 (NM_024351) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspa8
Synonyms:	Hsc70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RR211007 representing NM\_024351  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTAAGGACCTGCAGTTGGCATTGATCTTGGCACCACTACTCCTGTGTGGGTGTCTTCCAGCATG  
 GAAAGGTGGAAATAATTGCCAATGACCAGGGTAACCGCACACCGCGAGCTATGTTGCTTTCACCGACAC  
 AGAACGATTAATTGGGGATGCGGCCAAGAATCAGGTTGCAATGAACCCCAACACAGTTTTTGTATGCC  
 AAACGTCTGATCGGACGTAGGTTTCGATGATGCTGTTGTTCACTGACATGAAGCACTGGCCCTTATGG  
 TGGTGAACGATGCAGGCAGGCCAAGGTCGAATACAAAGGGGAGACAAAAGTTTCTATCTGA  
 GGAAGTGTCTTCAATGTTCTGACAAAAATGAAGGAAATGCAGAAGCTTACCTTGGAAAGACTGTTACC  
 AATGCCGTGGTCAACGTGCCAGCTTACTTCAATGACTCTCAGCGACAGGCAACAAAAGATGCTGAACTA  
 TTGCTGGCCTCAACGTACTTCAATTATCAATGAGCCAATGCTGCTGCTATTGCCTATGGCTTAGATAA  
 GAAGGTCGGGGCTGAAAGGAATGTGCTCATTTTTGACTTGGGAGGTGGCACTTTTGTATGTGCAATCCTC  
 ACTATCGAGGATGGAATTTTTGAAGTCAAATCAACAGCTGGAGACACCCACTTGGGCGGAGAAGACTTTG  
 ACAACCGAATGGTCAACCATTTTCATTGCTGAGTTAAGCGAAAGCACAAGAAGGACATCAGTGAGAACA  
 GAGAGCTGTACGGCTCTCCGCACTGCCTGTGAGCGGGCAAGCGCACCCCTCTCCTCCAGCACCCAGGCC  
 AGTATTGAGATTGATTCTCTCTATGAGGGAATTGACTTCTACACCTCCATTACCCGTGCTCGATTGAGG  
 AGTTGAATGCTGACCTGTTCCGTGGCACACTGGACCCTGTAGAGAAGGCCCTTCGAGATGCCAACTAGA  
 CAAGTCACAGATCCATGATATTGCTCGTGGTGGTGGTTCTACCAGAATCCCAAGATCCAGAACTTCTG  
 CAAGACTTCTTCAATGGAAAAGAGCTGAATAAGAGCATTAAACCCGATGAAGCTGTTGCCTATGGTGCAG  
 CTGTCCAGGCAGCCATTCTATCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGTCAC  
 TCCTCTTTCCCTTGGGATTGAAACTGCTGGTGGAGTCATGACTGTCCTCATCAAGCGCAATACCACCATT  
 CCCACCAAGCAGACCCAGACTTTTACCACCTACTCTGACAACCAGCCAGGTGTAATCATCCAGGTGTATG  
 AAGGTGAAAGGGCCATGACCAAGGACAACAACCTGCTTGGGAAGTTTGGCTCACAGGCATACCTCCAGC  
 ACCCCGTGGGTTCTCAGATTGAGTTACTTTTACATTGATGCCAATGGCATCCTCAATGTTTCTGCT  
 GTAGATAAGAGCACAGGAAAGGAGAACAAGATCACCATCACCAATGACAAGGGCCGCTTGAGTAAGGAGG  
 ATATTGAGCGCATGGTCCAAGAAGCTGAGAAGTACAAGCTGAGGATGAGAAGCAGAGAGATAAGGTTTC  
 CTCTAAGAAGCTCGCTGGAGTCTTATGCTTTCAACATGAAAGCAACTGTTGAGGATGAGAACTTCAAGGC  
 AAGATCAATGATGAAGACAAACAGAAGATTCTTGACAAGTGAACGAAATCATCAGCTGGCTGGATAAGA  
 ACCAGACTGCGGAGAAGGAAGAAATTTGAGCATCAGCAGAAAGAACTGGAGAAGGTCTGCAACCCTATCAT  
 CACCAAGCTGTACCAGAGTGTGGTGGCATGCCTGGAGGAATGCCTGGTGGCTTCCCTGGTGGAGGAGCT  
 CCTCCATCTGGTGGTGTCTTTCAGGCCCCACCATTGAAGAGGTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211007 representing NM\_024351  
 Red=Cloning site Green=Tags(s)

MSKGPVAVGIDLGGTYSVGVFQHGKVEIIANDQGNRTTPSYVAFDTERLIGDAAKNQVAMNPTNTVFDA  
 KRLIGRRFDDAVVQSDMKHWPFMVNDAGRPKVQVEYKGETKSFYPPEVSSMVLTKMKEIAEAYLGKTVT  
 NAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAAYGLDKKVGAEARNVLIIFDLGGTDFDVSIL  
 TIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFAEFKRKHKKDISENKRAVRRRLTACERAKRTLSSSTQA  
 SIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLL  
 QDFNKGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGVMVTLIKRNTTI  
 PTKQTQFTTYSNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSA  
 VDKSTGKENKIIITNDKGRLSKEDIERMVQEAKEYKADEKQRDKVSSKNSLESYAFNMKATVEDEKLQG  
 KINDEDKQKILDKCNIIISWLDKNQTAKEEFEHQQKELEKVCNPITTKLYQSAGMPPGGMPGGFPPGGGA  
 PPSGGASSGPTIEEVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_024351

**ORF Size:** 1938 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\\_024351.2](#), [NP\\_077327.1](#)

**RefSeq Size:** 2130 bp

**RefSeq ORF:** 1941 bp

**Locus ID:** 24468

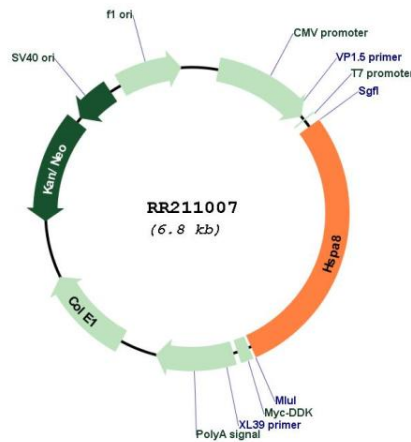
**UniProt ID:** [P63018](#)

**Cytogenetics:** 8q22

**MW:** 70.9 kDa

**Gene Summary:** member of the hsp70 protein; expressed in unstressed cells [RGD, Feb 2006]

**Product images:**



Circular map for RR211007