

## Product datasheet for **RR201951**

### Hspa9 (NM\_001100658) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa9 (NM_001100658) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspa9
Synonyms:	Crp40; GRP-75; Hspa9a; PBP74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RR201951 representing NM\_001100658  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGATAAGCGCCAGCAGAGCCGCGCGCGCTCTCGTGGCACCACAGCGTCCCGGAGTCCCGCCGCCG  
CCCGTCACCAGGATGGCTGGAATGGCCTTAGTCATGAGGCTTTTAGATTTGTTTCAAGAAGGGATTATGC  
GTCAGAAGCAATCAAGGGTGCAGTTGTTGGAATTGATTTGGTACTACTAACTCCTGTGTGGCTGTTATG  
GAGGGCAAACAAGCCAAGGTCTGGAGAACGCCGAAGGTGCCAGAACTACCCCTTCTGTGGTTGCCTTTA  
CACCAGATGGGGAGCGACTTGTGGTATGCCAGCAAAACGACAAGCTGTCACCAACCCAAACAATACTTT  
CTATGCTACAAAGCGTCTTATTGGACGACGATATGATGACCTGAAGTACAGAAAGACACTAAGAATGTT  
CCCTTTAAATTTGCCGTCCCAATGGTGATGCCTGGTGGAGGCTCATGGAAAACCTATTCTCCGA  
GTCAGATTGGAGCGTTTGTGTTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGCCATACAGCAA  
AAATGCTGTGATCACAGTCCCTGCTATTTCAATGACTCACAGCGACAGGCCACTAAGGATGCTGGCCAG  
ATATCTGGGCTAAATGTGCTCCGAGTGATCAACGAGCCTACAGCTGCAGCTCTGGCTTACGGTCTGGACA  
AATCCGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGAGGAACCTTTGACATTTCTATCCTGGAAT  
TCAGAAAGGAGTGTGGAGGTGAAATCCACCAATGGGGACACTTTCTTAGGAGGTGAAGACTTTGACCAA  
GCTTTGTTACGGCACATTGTCAAGGAGTTCAAGAGGGAGACAGGGGTTGATTTGACCAAAGACAACATGG  
CACTTCAGAGGGTTCCGGGAAGCTGCTGAGAAGGCTAAATGTGAGCTCTCCTCATCTGTACAGACTGACAT  
CAACTTGCCATACCTTACAATGGATGCTTCTGGACCAAGCATTGAATATGAAGTTGACTCGAGCTCAG  
TTTGAAGGCATTGTCACAGATCTAATCAAGAGAACTATTGCTCCGTGTCAGAAAGCTATGCAGGATGCAG  
AAGTCAGCAAGAGTGACATAGGAGAAGTGATCCTGGTTGGTGGCATGACGAGGATGCCAAGGTTTCAGGA  
GACTGTGCAAGATCTTTTTGGCAGAGCCCCAAGTAAAGCTGTTAATCCTGATGAGGCTGTAGCCATTGGA  
GCTGCCATTCAAGGAGGTGTGTTGGCTGGTGTACAGATGTGCTACTCTGGATGCTACTCCCTCT  
CTCTAGGTATTGAGACACTTGGAGGTGCTTTACCAAGCTTATTAATAGGAACACCACTATTCCAACCAA  
AAAGAGCCAGGTATTTCTACTGCTGCTGATGGACAACTCAAGTAGAGATTAAGTGTGTCAGGGGGAA  
AGAGAGATGGCCGGAGACAACAACTTCTAGGACAGTTCACTTTGATTGGAATCCCCCAGCCCCTCGTG  
GAGTGCCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATTGTGCACGTTTCTGCCAAAGATAA  
AGGGACAGGACGTGAGCAACAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATTGAAAAC  
ATGGTTAAAAATGCAGAGAAGTACGCTGAAGAAGACCGGAGGAAGAAGGAACGTGTTGAAGCAGTTAATA  
TGGCTGAAGGAATTATTCATGACACAGAAACCAAGATGGAAGAATTCAAGGACCAGTTGCCTGCTGACGA  
GTGCAACAAGCTAAAGGAAGAGATTTCCAAAATGAGAGAACTCCTTGCTCGAAAGGACAGTGAAACAGGA  
GAAAACATTAGGCAGGCGGCATCTTCCCTTACGAGGCATCATTGAAAACCTTTGAAATGGCATATAAAA  
AGATGGCATCTGAACGGGAAGGTTCTGGAAGTTCTAGCACTGGGGAACAGAAGGAAGATCAGAAGGAAGA  
GAAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201951 representing NM\_001100658  
 Red=Cloning site Green=Tags(s)

MISASRAAAARLVGTTASRSPAARHQDGNGLSHEAFRFVSRRDYASEAIKGAVVGIDLTTNSCVAVM  
 EGKQAKVLENAEGARTTPSVVAFTPDGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDTKNV  
 PFKIVRASNGDAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGHAKNAVITVPAYFNDSQRQATKDAGQ  
 ISGLNVLRVINEPTAAALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQ  
 ALLRHIVKEFKRETGVDLTKDNMALQRVREAAEKAKCELSSSVQTDINLPYLMDASGPKHLNMKLTRAQ  
 FEGIVTDLIKRTIAPCQKAMQDAEVSKSDIGEVILVGGMTRMPKVQQTVDLFGRAPSKAVNPDEAVAIG  
 AAIQGGVLAGDVTDVLLLDVTPLSLGIETLGGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGE  
 REMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDIDANGIVHVSADKGTGREQQIIVIQSSGGLSKDDIEN  
 MVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFKQQLPADECNKLKEEISKMRELLARKDSETG  
 ENIRQAASLQQASLKL FEMAYKKMASEREGSGSSSTGEQKEDQKEEKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/ja2466\\_b01.zip](https://cdn.origene.com/chromatograms/ja2466_b01.zip)

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001100658

ORF Size: 2037 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001100658.2](#), [NP\\_001094128.2](#)

**RefSeq Size:** 2834 bp

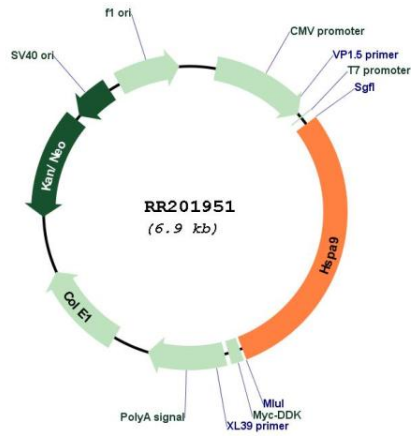
**RefSeq ORF:** 2040 bp

**Locus ID:** 291671

**Cytogenetics:** 18p12

**MW:** 74.2 kDa

Product images:



Circular map for RR201951