

Product datasheet for **RR201826**

Hspa5 (NM_013083) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa5 (NM_013083) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspa5
Synonyms:	BIP; GRP 78; GRP78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR201826 representing NM_013083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAGTTCACTGTGGTGGCGGCGCTGCTGCTGTGTGCGGTGCGGGCGGAGGAGGACAAGA
 AGGAGGATGTAGGCACGGTGGTTGGCATCGACTTGGGGACCACCTATTCTGCGTCGGTGTATTCAAGAA
 CGGCCCGTGGAGATCATAGCCAACGATCAGGGCAACCGCATCACACCGTCGTATGTGCCTTCACTCCT
 GAAGGGGAGCGTCTGATTGGCGATGCGGCCAAGAACCAACTCACGTCCAACCCGGAGAACACCGTCTTCG
 ACGCCAAGCGCCTCATCGGACGCACTTGGAAATGACCCCTCCGTGCAGCAGGACATCAAGTTCTTGCCATT
 CAAGGTGGTTGAAAAGAAAATAAACCATATATCAAGTTGATATCGGAGGTGGGCAAACCAAGACATTT
 GCCCCAGAAGAAATTTCTGCTATGGTTCTCACTAAAATGAAGGAACTGCCGAGGCGTATTTGGAAAGA
 AGGTCACCCATGCAGTTGTGACTGTACCAGCTTACTTCAATGATGCACAGCGCAAGCAACCAAGGATGC
 TGGCACTATTGCTGGACTGAATGTCATGAGGATCATCAATGAGCCAACAGCAGCTGCTATTGCATATGGC
 CTGGATAAGAGAGAGGGAGAGAAGAATCCTCTGTTTACCTGGTGGTGGAACTTCGATGTGTCTC
 TTCTCACCATTGACAATGGTGTCTTTGAAGTGGTGGCCACTAATGGAGACTCATCTGGGTGGGGAAGA
 CTTTGTACAGCGGGTCATGGAGCACTTCATCAAGCTGTACAAAAGAAAGACTGGGAAAGATGTCAGAAAG
 GACAACAGAGCTGTGCAGAACTCCGGCGTGAGGTAGAAAAGGCCAAGAGAGCCCTGTCTTCTCAGCATC
 AAGCGAGGATTGAAATGAGTCTTCTTCGAAGGAGAAGACTTCTCAGAGACCCTTACTCGGGCCAAATT
 TGAAGAGCTGAACATGGACCTGTCCGCTTACCATGAAACCTGTCCAGAAAGTGTGGAAGACTCTGAT
 CTGAAGAAATCTGATATTGATGAGATTGTTCTGGTTGGCGGATCTACTCGAATCCAAAGATTGAGCAGT
 TGGTGAAAGATTCTTCAATGGCAAGGAGCCGTCCCGTGGCATCAACCCAGATGAGGCTGTAGCATATGG
 TGCCGCTGTCCAGGCTGGTGTCTCTCTGGTGATCAAGATACAGGTGACCTGGTTCTGTTGATGTGTGT
 CCTCTTACACTTGGTATTGAAACTGTGGGAGGTGTCATGACAAAATGATTCCGAGGAACACTGTGGTGC
 CCACCAAGAAGTCTCAGATCTTCTCCACAGCTTCTGATAATCAGCCCACCGTAACAATCAAGGTCTACGA
 AGGTGAACGACCCTGACAAAAGACAATCACCTTCTGGGTACATTTGATCTGACTGGAATCCCTCTGCT
 CCCCCTGGGGTACCCAGATTGAAGTCACTTTGAGATAGATGTGAATGGTATTCTTCGAGTGACAGCTG
 AAGACAAAGGGACAGGAAACAAAACAAAATCACCATACCAATGACCAAAACCGCCTGACCCTGAAGA
 AATTGAAAGGATGGTCAATGACGCCGAGAAGTTTGTGAGGAAGACAAAAGCTCAAAGAGCGCATTGAC
 ACGAGGAATGAATTGAAAGCTATGCTTACTCTTAAAGAACCAGATCGGAGATAAAGAGAAGCTGGGAG
 GTAAGCTGTCTCTGAAGATAAAGAGACCATGGAGAAAGCTGTAGAGGAAAAGATCGAATGGCTGGAAAG
 CCACCAGGATGCAGACATTGAAGACTTTAAAGTAAAAAGAAGGAACTAGAAGAAATTTTCAGCCAATT
 ATCAGCAAATCTATGGAAGTGGAGGCCCTCCCCAACTGGTGAAGAGGATACATCAGAAAAAGATGAGT
 TG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201826 representing NM_013083
 Red=Cloning site Green=Tags(s)

MKFTVVAALLLLCAVRAEEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTP
 EGERLIGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQDQIKFLPFKVVKKTKPYIQVDIGGGQTKTF
 APEEISAMVLTMKETAAYLGGKVTTHAVVTPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYG
 LDKREGEKNILVFDLGGGTFDVSLTIDNGVFEVVATNGDTHLGGEDFDQRVMEHFIKLYKKKTGKDVRK
 DNRAVQKLRREVEKAKRALSSQHARIEIESFFEGETSETLTRAKFEELNMDLFRSTMKPVQKVLSD
 LKKSIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVC
 PLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPA
 PRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIIITNDQNRLTPEEIERMVNDAEKFAEEDKKKERID
 TRNELESYAYSLKNQIGDKEKLGKLSPEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPI
 ISKLYSGGGPPPTGEEDTSEKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_013083

ORF Size: 1962 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 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_013083.2](#), [NP_037215.1](#)

RefSeq Size: 2580 bp

RefSeq ORF: 1965 bp

Locus ID: 25617

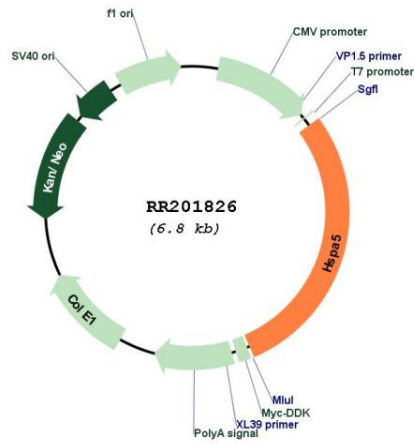
UniProt ID: [P06761](#)

Cytogenetics: 3p11

MW: 72.3 kDa

Gene Summary: secreted protein of the endoplasmic reticulum; may be involved in the assembly of secreted and membrane-bound proteins [RGD, Feb 2006]

Product images:



Circular map for RR201826