

## Product datasheet for **RC209403**

### **HSP70-1B (HSPA1B) (NM\_005346) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HSP70-1B (HSPA1B) (NM_005346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSP70-1B
Synonyms:	HSP70-1; HSP70-1B; HSP70-2; HSP70.1; HSP70.2; HSP72; HSPA1; HSX70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC209403 representing NM\_005346  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCAAAGCCGCGCGATCGGCATCGACCTGGCACCACCTACTCCTGCGTGGGGGTGTTC AACACAG  
GCAAGGTGGAGATCATCGCCAACGACCAGGGCAACCGCACCCAGCTACGTGGCCTTCACGGACAC  
CGAGCGGCTCATCGGGATGCGGCCAAGAACCAGGTGGCGCTGAACCCGAGAACCCTGTTTGACCGG  
AAGCGGCTGATCGGCCGCAAGTTCGCGCACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCTTTCCAGG  
TGATCAACGACGGAGACAAGCCCAAGGTGCAGGTGAGCTACAAGGGGGAGACCAAGGCATTCTACCCCGA  
GGAGATCTCGTCCATGGTGTGACCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCTACCCGGTGACC  
AACCGGGTATCACCGTGCCGGCCTACTTCAACGACTCGCAGCGCCAGGCCACCAAGGATGCGGGTGTGA  
TCGCGGGGCTCAACGTGTGCGGATCATCAACGAGCCCACGGCCCGCCATCGCCTACGGCCTGGACAG  
AACGGCAAGGGGAGCGCAACGTGCTCATCTTTGACCTGGGCGGGGCACCTTCGACGTGTCCATCCTG  
ACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGACACCCACCTGGGTGGGAGGACTTTG  
ACAACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACAAGAAGGACATCAGCCAGAACAA  
GCGAGCCGTGAGGCGGTGCGCACCCGCTGCGAGAGGGCCAAGAGGACCTGTGCTCCAGCACCCAGGCC  
AGCCTGGAGATCGACTCCCTGTTTGGGGCATCGACTTCTACACGTCCATCACCAGGGCGAGGTTTCGAGG  
AGCTGTGCTCCGACCTGTTCCGAAGCACCTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCAAGCTGGA  
CAAGGCCCAGATTCACGACCTGGTCTGGTTCGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGCTG  
CAGGACTTCTTCAACGGGCGGACCTGAACAAGAGCATCAACCCGACGAGGCTGTGGCTACGGGGCGG  
CGGTGCAGGCGGCCATCCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGACGTGGC  
TCCCCTGTCGCTGGGGCTGGAGACGGCCGGAGGCGTGATGACTGCCCTGATCAAGCGCAACTCCACCATC  
CCCACCAAGCAGACGCAGATCTTACCACCTACTCCGACAACCAACCCGGGGTGTGATCCAGGTGTACG  
AGGGCGAGAGGGCCATGACGAAAGACAACAATCTGTTGGGGCGCTTCGAGCTGAGCGGCATCCCTCCGGC  
CCCCAGGGGCGTGCCCCAGATCGAGGTGACCTTCGACATCGATGCCAACGGCATCCTGAACGTCACGGCC  
ACGGACAAGAGCACCGGCAAGGCCAACAAGATCACCATCACCAACGACAAGGGCCGCTGAGCAAGGAGG  
AGATCGAGCGCATGGTGCAGGAGGCGGAGAAGTACAAGCGGAGGACGAGGTGCAGCGGAGAGGGTGTG  
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CAGCGGACTGTACCAGGTTGCCGGTGGTCCCAGGCTGGCGGCTTCGGGGCTCAGGGTCCAAGGGAGGG  
TCTGGGTGAGGCCCTACCATTGAGGAGGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**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\\_005346.5](#)

**RefSeq Size:** 2551 bp

**RefSeq ORF:** 1926 bp

**Locus ID:** 3304

**UniProt ID:** [P08107](#)

**Cytogenetics:** 6p21.33

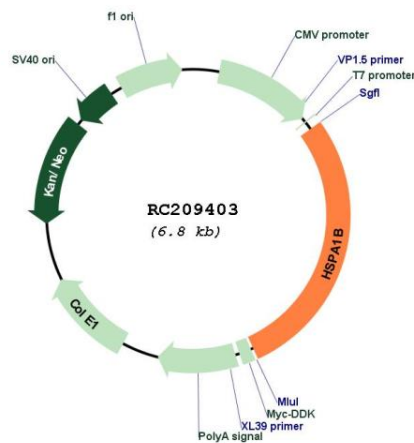
**Domains:** HSP70

**Protein Pathways:** Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome

**MW:** 70.5 kDa

**Gene Summary:** This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC209403