

## Product datasheet for **MR209622**

### Hspa2 (NM\_008301) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa2 (NM_008301) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspa2
Synonyms:	70kDa; Hsp70-2; HSP70.2; HSP70A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209622 representing NM\_008301  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
 GCC

ATGTCTGCCCGCGGCCGGCTATCGGCATCGACCTGGGCACCACTTACTCGTGCCTGGGGTATTCCAAC  
 ATGGCAAGGTGGAGATCATCGCCAACGACCAGGTAACCGCACCACCCAGCTACGTGGCCTTCACTGA  
 CACCGAGCGTCTCATCGGCGACGCCAAGAACCAAGTGGCCATGAACCCACAAAACCATCTTCGAC  
 GCCAAGCGGCTGATCGGACGGAAGTTCGAGGACGCCACAGTGCAGTCCGATATGAAGCACTGGCCGTTC  
 GAGTGGTGAAGGTTGGGAAGCCAAAGTGCAGGTGGAATAAAGGGGAGATGAAGACCTTCTTCCC  
 TGAGGAGATTTCTCCATGGTCTCACTAAGATGAAGGAGATCGCGAAGCCTACCTGGGGGCAAGGTG  
 CAGAGCGCAGTCATCACTGTTCTGCCTATTTCAACGACTCGCAGCGCCAGGCCACCAAGGATGCGGGCA  
 CCATCACCGCCCTCAACGTGTTGCGCATCATCAATGAGCCACAGCAGCGGCCATCGCCTACGGCCTGGA  
 TAAGAAGGGCTGTGCGGGCGGCGAGAAGAAGTGTCTCATCTTTGACCTGGGCGGGGCGACCTTCGATGTG  
 TCCATCTGACCATCGAGGATGGCATCTTTGAGGTGAAGTCCACGCGCCGCGCATACCCACCTGGGTGGCG  
 AAGACTTCGACAACCGTATGGTCAAGCCTGGCGGAGGAGTTCAAGCGCAAACAAGAAGGACATTGG  
 GCCCAACAAGCGCGCTGTGCGCCGGTGCACCCGCTGCGAGCGCGCTAAGCGCACCTGAGCTCGTCC  
 ACGCAGGCCAGCATAGAGATCGACTCGCTTACGAGGGCGTGGATTTCTACACGTCCATCACCCGCGCC  
 GCTTCGAGGAGCTCAACGCCGATCTCTCCGAGGGACCTGGAGCCGGTGGAAAAGGCGCTGCGCGATGC  
 CAAGCTAGACAAGGGCCAGATCCAGGAGATAGTGTGTTGGGCGGCTCAACCCGCATCCCTAAGTCCAG  
 AAGCTCCTGCAAGATTTCTTCAACGGCAAGGAGCTGAACAAGAGCATTAAATCCCGACGAGCGGTGGCT  
 ACGGCGCCGCTGTGACGCGGCTATCTCATCGGCGACAAGTGGAAAATGTGCAGGATCTGCTGTTACT  
 CGACGTGACTCCATTGTCGCTCGGCATCGAAACAGCTGGCGGTGTCATGACCCCACTCATCAAGAGAAAC  
 ACCACGATCCCCACCAAGCAGACGACGACCTTCACTACCTACTCAGACAACCAGAGCAGCGTGTGGTGC  
 AAGTGTACGAGGGCGAACGGGCCATGACCAAGGACAATAACCTCTTGGGCAAGTTCGACCTGACTGGGAT  
 CCCCCAGCACCCGTTGGGTCCCCAGATCGAGGTACCTTTGACATCGATGCCAACGGCATCCTTAAC  
 GTCCTGCTGCCGACAAGAGCACCGGTAAGAAAATAAAATCACCATACCAACGACAAGGGTGGCTGA  
 GCAAAGACGACATTGACCGGATGGTGCAGGAGGCGGAGCGGTACAATCGGAAGATGAAGCAAATCGCGA  
 TCGCGTGGCAGCCAAAAATGCGGTGGAGTCTATACTACAACATCAAGCAGACCGTGAAGACGAGAAA  
 CTGAGGGGCAAGATTAGCGAGCAGGACAAAAACAAGATCCTCGACAAGTGTGAGGAGGTGATCACTGGC  
 TTGACCGAAACCAGATGGCAGAGAAAGATGAGTACGAACAAGCAGAAAGAGCTTGAGAGAGTGTGCAA  
 CCCCATCATCAGCAAACCTTACCAAGGCGGTCCAGGCGGCGGCGCTCCTCTGGAGGGCCACCATCGAG  
 GAAGTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 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\\_008301.4](#), [NP\\_032327.2](#)

**RefSeq Size:** 2595 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 15512

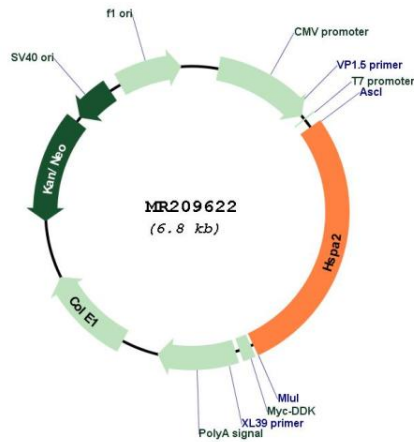
**UniProt ID:** [P17156](#)

**Cytogenetics:** 12 33.73 cM

**MW:** 70.1 kDa

**Gene Summary:** Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release (By similarity). Plays a role in spermatogenesis (PubMed:24557841). In association with SHCBP1L may participate in the maintenance of spindle integrity during meiosis in male germ cells (PubMed:24557841).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209622