

Product datasheet for **MC219971**

Hspa1l (NM_013558) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa1l (NM_013558) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hspa1l
Synonyms:	Hsc70t; Msh5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219971 representing NM_013558
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCTAATAAAGGAATGGCGATCGGCATCGACTTGGCACCACTACTCGTGGTGGCGTGTTC
 AGCACGGCAAGGTGGAGATCATCGCAACGACAGGGCAACCGCACGACCCTAGCTACGTGGCCTTAC
 CGACACCGAGCGCCTCATCGGAGACGCTGCCAAGAACCAGGTGGCCATGAATCCCCAGAACACTGTTTT
 GATGCCAAACGTCTAATTGGCAGGAAGTTAATGATCCTGTTGTGCAGTCAGATGAAGCTTTGGCCAT
 TTCAAGTGATCAATGAAGCCGGCAAACCAAGGTGATGGTGTCTATAAAGGAGAGAAGAAAGCCTTCTA
 CCCAGAGGAGATCTCATCCATGGTACTGACGAAGATGAAGGAGACTGCAGAGGCTTTTTGGCCACAAT
 GTCACCAACGCTGTGATCAGGTGCCAGCCTATTTCAATGACTCTCAGCGCAAGCCACCAAGGATGCAG
 GTGTCATCGCAGGACTCAATGTGCTGAGAATAATCAATGAGCCCACGGCGGCCCATCGCTACGGCTT
 GGATAAAGGAAGTCACGGAGAGCGGCACGTGCTCATCTTCGACCTGGGGGTGGCAGTTTCGACGTGCC
 ATCCTGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCGGGCGACACGCACCTGGGAGGGGAGG
 ACTTCGACAACCGGCTGGTGGCCACTTCGTGGAGGAGTTCAAGAGGAAGCACAAGAAGGACATCAGCCA
 GAACAAGCGCGCGGTGCGGGCGCTGCGCACTGCGTGTGAGAGGGCCAAGAGGACGCTGTCGTCCAGCACC
 CAGGCAAACCTGGAGATCGACTTTTATGAGGGCATCGACTTCTACACGTCCATCACTAGAGCACGGT
 TTGAAGAGCTGTGTGCAGACCTATTTAGAGGCACACTTGAGCCCGTGAAAGTCTCTTCGGGATGCCAA
 GATGGATAAGGCTAAAATCCATGACATTGTTCTAGTAGGGGGTCCACCCGCATCCCAAAGGTGCAAAAA
 CTGCTTCAGGACTACTTTAATGGACGGGATCTCAACAAGAGTATCAATCCCGATGAGGCAGTCGCCTACG
 GAGCTGCAGTCCAGGCAGCTATTTAATGGCGGACAAATCTGAAAAAGTACAGGATTTGCTTTTGTGGA
 CGTAGCTCCCCTGTCTAGGATTGGAGACAGCTGGGGGTGTGACTGTACTGATCAAGCGCAACTCC
 ACCATCCCCACCAAGCAGACGCAGATCTTCACCACCTACTCGGACAACCAGCCGGGGTGTGATCCAGG
 TGTACGAGGGCGAGAGGCCATGACGCGGACAACAACCTGCTGGGGCGCTTTGACTTGACTGGAATACC
 TCCTGCACCTAGGGCGTGCCACAGATCGAGGTGACCTTCGACATCGACGCCAACGGTATCCTGAACGTC
 ACGGCCATGGACAAGAGCACCGGCAAGGCAACAAGATCACCATCACCACGACAAGGGTGCCTGAGCA
 AGGAGGAGATTGAGCGCATGGTGCAGGAGGCCGAGCGCTACAAAGCGGAGGATGAGGGCCAGAGGGAGAA
 AATCGCTGCCAAAAATGCCTTAGAATCGTACGCCTTTAAATGAAGAGCGCTGTGGGTGATGAGGGTCTG
 AAGGACAAGATCAGCGAGTCCGATAAAAAGAAAATACTGGATAAATGCAATGAGGTCCTTTCCTGGCTGG
 AGGCCAACAGCTGGCTGAGAAAGATGAGTTGATCATAAAAGAAAAGAACTGGAAAATATGTGTATCC
 GATCATACAAAAGTGTACCAGAGCGGATGCACCGGGCCACCTGTACGCCAGGGTATACTCCCGGCAGG
 GCTGCCACAGGCCCTACCATCGAGGAAGTAGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013558

Insert Size: 1926 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_013558.2](#), [NP_038586.2](#)

RefSeq Size: 2415 bp

RefSeq ORF: 1926 bp

Locus ID: 15482

UniProt ID: [P16627](#)

Cytogenetics: 17 18.51 cM

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. Positive regulator of PRKN translocation to damaged mitochondria. [UniProtKB/Swiss-Prot Function]