

Product datasheet for **MC220403**

Hspa9 (NM_010481) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa9 (NM_010481) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hspa9
Synonyms:	74kDa; Csa; Grp75; Hsc74; Hsp74; Hsp74a; Hspa9a; Mortalin; Mot-2; Mot2; Mthsp70; Pbp74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220403 representing NM_010481
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATAAGCGCCAGCAGAGCCGCGCGCGCTCTCGTGGGCACCCTGCGTCCCAGAGCCCGCAGCCG
 CCCGTCGCCAGGATGGCTGGAATGGCCTTAGCCATGAGGCTTTTAGATTGTTTCAAGAAGAGATTATGC
 ATCAGAAGCAATCAAGGGTGCACTGGTTGGTATTGATTGGGTAATACTACTAATCTGTGTGGCTGTTATG
 GAGGGCAAACAAGCAAAGGTCTGGAGAATGCTGAAGGTGCCAGAACTACCCCTTCTGTGGTTGCCTTTA
 CAGCAGATGGAGAACGACTTGTGGTATGCCAGCAAAACGGCAAGCTGTCACCAATCCAAACAATACCTT
 CTATGCTACTAAGCGTCTTATTGGACGACGATATGATGACCTGAAGTACAGAAAGACACTAAGAATGTT
 CCTTTTAAATTTGCCGTGCCTCAATGGTGATGCTTGGGTTGAGGCTCATGGAAACTCTATTCTCCAA
 GTCAGATTGGAGCATTGTGTTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGCCACACAGCAAA
 AAATGCTGTGATCACAGTCCCTGCTTATTTCAATGATTACAGCGACAGGCCACTAAGGATGCTGGCCAG
 ATATCTGGGCTAAATGTGCTTCGAGTGATCAATGAGCCTACAGCTGCTGCTCTAGCTTACGGTCTGGACA
 AATCTGAAGATAAAGTCATTGCTGTGTATGATTTAGGTGGTGAACCTTTGACATTTCTATCCTGGAAT
 TCAGAAAGGAGTGTGGAGGTGAAATCTACCAATGGGACACTTTCTTAGGAGGGGAAGACTTTGACCAA
 GCTTTGTTGCGGCACATTGTCAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGACCAAAGACAACATGG
 CGCTTCAGAGGGTTCGGGAAGCTGCTGAGAAGGCTAAATGTGAATTTCCCTCATCTGTGCAGACTGACAT
 CAACTTGCCATACCTTACCATGGATGCTTCTGGACCAAGCATTGAATATGAAGCTGACTCGAGCTCAG
 TTTGAAGCATTGTCACAGATCTAATCAAGAGAACTATTGCTCCGTGTCAGAAAGCTATGCAGGATGCAG
 AAGTCAGCAAGAGTGACATAGGAGAAGTGATTCTGGTTGGTGGCATGACAAGGATGCCAAGGTTTCAGCA
 GACTGTACAAGATCTTTTGGCAGAGCCCGAGTAAAGCTGTTAATCCTGATGAGGCTGTAGCCATCGGA
 GCTGCCATCCAGGGAGGTGTGTTGGCTGGTGACGTTACAGACGTGCTGCTCCTGGATGCTACTCCCTCT
 CTCTGGGTATTGAGACTCTGGGAGGCGTCTTACCAAATTTAATAAGGAACACCACTATTCCAACCAA
 AAAGAGCCAGGTGTTTTCTACTGCTGCTGATGGACAACTCAAGTAGAGATTAAGTGTGTCAGGGGAA
 CGAGAGATGGCTGGAGACAACAACTTCTAGGACAGTTCACTTTGATTGGAATCCCCAGCCCTCGTG
 GAGTGCCCGAGATTGAAGTTACATTTGACATTGATGCCAATGGGATTGTGCACGTTTCTGCCAAGATAA
 AGGCACTGGTCTGAGCAACAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATTGAAAT
 ATGGTTAAAAATGCAGAGAAGTACGCTGAGGAAGACCGCAGGAAGAAGGAACGTGTTGAAGCAGTTAATA
 TGCTGAAAGGAATTATTCATGACACAGAAACCAAGATGGAAGAATTTAAGGACCAGTTGCCTGCTGATGA
 GTGCAACAAGCTAAAGGAAGAGATTTCCAAAATGAGAGCGCTCCTTGCTGGAAAGGACAGTGAGACAGGA
 GAGAACATCAGGCAGGCAGCATCTCCCTACAGCAGGCGTCATTGAAACTCTTCAAATGGCGTACAAAA
 AGATGGCATCTGAACGGGAAGGTTCTGGAAGTTCTGGCACTGGGGAACAGAAGGAAGATCAGAAGGAAGA
 GAAACAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_010481
- Insert Size:** 2040 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:	<ol style="list-style-type: none">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_010481.2 , NP_034611.2
RefSeq Size:	3067 bp
RefSeq ORF:	2040 bp
Locus ID:	15526
UniProt ID:	P38647
Cytogenetics:	18 18.8 cM
Gene Summary:	Chaperone protein which plays an important role in mitochondrial iron-sulfur cluster (ISC) biogenesis (PubMed:26702583). Interacts with and stabilizes ISC cluster assembly proteins FXN, NFU1, NFS1 and ISCU (By similarity). Regulates erythropoiesis via stabilization of ISC assembly (PubMed:21123823). May play a role in the control of cell proliferation and cellular aging (PubMed:8454632).[UniProtKB/Swiss-Prot Function]