

Product datasheet for **RN215127**

Hspa1a (NM_031971) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspa1a (NM_031971) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hspa1a
Synonyms:	Hsp70-1; Hsp70-2; HSP70.1; HSP72; Hspa1; Hspa1b; Hspa2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN215127 representing NM_031971
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGAAAACAGCGATCGGCATCGACCTGGCACCACCTACTCGTGCCTGGGCGTGTTCAGCAGC
 GCAAGGTGGAGATCATCGCCAACGACCAGGGCAACCGCACGACCCCCAGCTACGTGGCCTTCACCGACAC
 CGAGCGGCTCATCGGGACGCCGCAAGAACCAGGTGGCGCTGAACCCGAGAACCCTGTTCAGCGG
 AAGCGGCTGATCGGCCGAAGTTCGCGCACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCCTCCAGG
 TGGTGAACGACGGCGACAAGCCCAAGGTGCAGGTGAACTACAAGGGCGAGAACCCTGTTCACCCGGA
 GGAGATCTCGTCCATGGTGTGACCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCCACCCGGTGACC
 AACCGGCTGATCACCGTCCCGCCTACTTCAACGACTCGCAGCGGACGGCCCAAGGACGCGGGCGTGA
 TCGCGGGTCTGAACGTGTGCGGATCATCAACGAGCCACGGCGGCCCATCGCCTACGGGCTGGACCG
 GACCGCAAGGGCGAGCGCAACGTGCTCATCTTCGACCTGGGGGCGGCACGTTTCAGCTGTCCATCCTG
 ACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCGGGCGACACGCACCTGGGCGGGGAGGACTTCG
 ACAACCGGCTGGTGGCCACTTCGTGGAGGAGTCAAGAGGAAGCACAAGAAGGACATCAGCCAGAACAA
 GCGCGCGGTGCGGCGACTGCGCACGGCGTGCAGAGGGCCAAGAGGACGCTGTCTCCAGCACCCAGGCC
 AGCCTGGAGATCGACTCTCTGTTTCGAGGGCATCGACTTCTACACGTCCATCACGCGGGCGCGGTTTCGAGG
 AGCTGTGCTCGGACCTGTTCCGCGGCACGCTGGAGCCCGTGGAGAAGGCCTGCGCGACGCCAAGCTGGA
 CAAGGCGCAGATCCACGACCTGGTGTGGTGGGCGGCTCGACGCGCATCCCAAGGTGCAGAAGCTGCTG
 CAGGACTTCTTCAACGGGCGGACCTGAACAAGAGCATCAATCCGGACGAGGCGGTGGCTACGGGGCGG
 CGGTGCAGGCGGCCATCCTGATGGGGGACAAGTCGGAGAACGTCAGGACCTGCTGCTGTGACGTGGC
 GCCGCTGTGCTGGGTCTGGAGACCGCGGGCGGGGTGATGACGGCGCTCATCAAGCGCAACTCCACCATC
 CCCACCAAGCAGACGACACCTTACCACCTACTCGGACAACCAGCCCGGGTGTGATCCAGGTGTACG
 AGGGCGAGAGGGCCATGACGCGGACAACAACCTGCTGGGGCGCTTCGAGTTGAGCGGCATCCCGCCGGC
 TCCCAGGGGCGTCCCCAGATCGAGGTGACCTTCGACATCGACGCCAACGGCATCCTGAACGTCACGGCC
 ACTGACAAGAGCACCGGCAAGGCCAACAAGATCACCATCACCAACGACAAGGGCCGCTGAGCAAGGAGG
 AGATCGAGCGCATGGTGCAGGAGCCGAGCGCTACAAGGCGGAGGACGAGGTGCAGCGGAGAGGGTGGC
 TGCCAAGAATGCGCTCGAGTCTATGCCTTCAACATGAAGAGCGCCGTGGAGGACGAGGGTCTCAAGGGC
 AAGATCAGCGAGGCTGACAAGAAGAAGGTGCTGGACAAGTGCCAGGAGGTGATCTCTGGCTGGACTCTA
 ACACGCTGGCTGAGAAAGAGGAGTTCGTGCACAAGCGGGAGGAGCTGGAGCGGGTGTGCAACCCGATCAT
 CAGCGGGCTGATCAGGGTGCGGGTGCTCCCGGGGCTGGGGGCTTCGGGGCCAGGCGCCCAAGGGAGGC
 TCTGGGTGCGGGCCACCATCGAGGAGGTGGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_031971
- 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_031971.2](#), [NP_114177.2](#)

RefSeq Size: 4045 bp

RefSeq ORF: 1926 bp

Locus ID: 24472

UniProt ID: [P0DMW0](#)

Cytogenetics: 20p12

Gene Summary: heat inducible gene; induced by global ischemia and kainic acid-induced seizures [RGD, Feb 2006]