

Product datasheet for **MC222144**

Hsph1 (NM_013559) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsph1 (NM_013559) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hsph1
Synonyms:	105kDa; AI790491; hsp-E7I; Hsp105; Hsp110; hsp110/105
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222144 representing NM_013559
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGTGGTTGGGCTAGACGTAGGCTCACAGAGCTGCTACATTGCGGTGGCGCGGCCGGGGGCATCG
 AGACCATCGCCAACGAGTTCAGCGACCGCTGCACCCCGTCAGTCATATCATTGGATCAAAAAACAGAAC
 AATTGGAGTTGCAGCAGCAAAAACAGCAAACTCACTCATGCAAAACAATACGGTCTCTAGCTTTAAGAGATT
 CATGGCAGAGCATTCAATGACCCCTTCATTGAGAGAAAAGGAGAACCTGAGCTATGATTTGGTCCCAA
 TGA AAAATGGTGGCGTGGGAATAAAGGTCATGTACATGGATGAAGAACATTTCTTCAGTGTGGAGCAGAT
 AACAGCCATGCTGCTGACTAAGTTAAAGGAAAAGTGCAGAAAACAACCTCAAGAAGCCAGTGACAGACTGT
 GTCATCTCAGTCCATCCTTCTCACAGATGCTGAGCGAAGGCTGTGCTGGATGCTGCGCAGATTGTGG
 GCTTGAAGTCTTGGCGCTCATGAATGACATGACGGCTGTTGCTTTGAATTATGGGATTTATAAGCAAGA
 TCTCCCGAATGCCGAGGAGAAGCCACGGGTGGTGGTGTGTTGTTGACATGGGACACTCATCTTTCCAAGT
 TCTGCCTGTGCTTTTAAACAAAGGAAAAGTGAAGGTTCTAGGCACAGCTTTTGATCCCTTCTTAGGAGGAA
 AGAACTTTGATGAGAAGCTAGTAGAACATTTTTGTGCTGAATTTAAAACCAAGTACAAATTTGGATGCAAA
 ATCCAAAATTCGAGCCCTCCTTCGTCCTCATCAGGAGTGTGAAAAGTTGAAAAGCTCATGAGTTCTAAC
 AGCAGCGACCTGCCGCTGAACATCGAGTGTCTTATGAATGACAAGGATGTCTCTGGGAAGATGAACAGGT
 CACAGTTTGAAGAAGTGTGTGCTGAGCTCCTGCAAAAAATAGAGGTCCCCTTCACTCGTTGATGGCACA
 GACTCAGCTCAAGGCTGAAGATGTGAGTGCCATTGAGATAGTGGGAGGTGCCACAAGAATCCCAGCTGTG
 AAAGAAAGAAATTGCCAAGTCTTTGGAAAAGATGTCAGCACCACGCTCAATGCAGACCAAGCTGTGGCCA
 GAGGCTGTGACTGCAGTGTCAATTCTTCCGGCATTAAAGTTAGAGAGTTCTCTGACCCAGTGTG
 AGTTCCTTTTCCAATATCTCTGGTCTGGAACACGACTCGGAAGAAACGGAAGGTGTGCACGAGGTGTT
 AGTCGGAACCATGCTGCTCCTTCTCCTCAAGTGTCTCACCTTCTGAGAAGGGGGCCCTTTGAGCTAGAAG
 CTTTCTATTCTGACCCTCAAGGAGTTCATATCCAGAAGCAAAAAAGGCCGTTTTGTTGTTGAGAAATGT
 TTCTGCACAGAAAGATGGAGAGAAGTCGAGAGTGAAGGTCAAAGTGCCTGTGAACACACATGGCATCTTC
 ACCATCTCCAGGCTTCCATGGTGGAGAAGTCCCAGCCGAGGAAGAGGATGGCTCCTCTCGAGGCGAG
 ACATGGAATGTCCAAACAGAGGCCAACAGAAAGTCCGATGTGGATAAAAAATCCAGCAAGACAACAG
 TGAAGCTGGAACACAGCCCCAGGTACAACTGATGGTCAACAAACCTCACAGTCTCCCCCTTCACTGAA
 CTTACCTCAGAAGAAAGCAAAACCCAGATGCTGACAAAGCAAAATGAAAAGAAAGTTGATCAGCCTCCAG
 AAGCCAAGAAACCTAAAATAAAGGTGGTAAATGTTGAGCTGCCTGTAGAAGCCAACCTGGTATGGCAGTT
 AGGGAGAGACCTTCTAACATGTATATTGAGACAGAGGGCAAGATGATCATGCAAGACAAGCTGGAGAAG
 GAGCGGAACGACGCCAAGAACCGCTGGAGGAGTGTGTATATGAGTTCAGGGACAAGCTATGTGGACCAT
 ATGAGAAATTCATATGTGAGCAGGAACATGAGAAGTCTTGGAGCTTCTAACAGAGACGGAAGACTGGCT
 GTATGAGGAAGGGGAGGACCAGGCTAAGCAGGCATACATTGACAAGTTGGAAGAGCTGATGAAAATGGGC
 ACTCCTGTTAAAGTCAGATTTCAAGAAGCTGAGGAACGACCGAAAGTGTGGAGGAGCTGGGCGAGCGCC
 TGCAGCACTATGCCAAGATTGCAGCGGACTTCAGAGGCAAGGATGAGAAATACAACCACATTGATGAATC
 AGAAATGAGAAGGTTGAGAAGTCTGTTAATGAGGTGATGGAGTGGATGAATAATGTCATGAATGCTCAG
 GCTAAAAGAAAGTCTTGATCAAGACCCTGTTGTTGGAACCTCATGAAATCAGAGCGAAGGTCAAGGAATTGA
 ACAATGTTTGTGAACCTGTTGTAACCAACCAAAAAATCGAGTCACTAACTGGAGAGAAGTCC
 AAATGGCCCAAATATTGACAAGAAAGAGATTTAGAAGGCAAAAAATATCTTGGTGTGAAGCTCCGCAT
 CAGAATGGTGAATGCCACCCTAATGAGAAGGGCTCTGTCAACATGGACCTGGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_013559
Insert Size: 2577 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_013559.2 , NP_038587.2
RefSeq Size:	3478 bp
RefSeq ORF:	2577 bp
Locus ID:	15505
UniProt ID:	Q61699
Cytogenetics:	5 89.18 cM
Gene Summary:	Acts as a nucleotide-exchange factor (NEF) for chaperone proteins HSPA1A and HSPA1B, promoting the release of ADP from HSPA1A/B thereby triggering client/substrate protein release (By similarity). Prevents the aggregation of denatured proteins in cells under severe stress, on which the ATP levels decrease markedly. Inhibits HSPA8/HSC70 ATPase and chaperone activities (PubMed:14644449, PubMed:15292236).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).