

Product datasheet for **RN213187**

Hsph1 (NM_001011901) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsph1 (NM_001011901) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hsph1
Synonyms:	Hsp105
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213187 representing NM_001011901
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGTGGTTGGGCTAGACGTGGGCTCGCAGAGCTGCTACATTGCAGTGGCACGGGCCGGGGCATCG
 AGACCATCGCAACGAGTTCAGCGACCGCTGCACCCCGTCACTATATCATTGGACAAAAACAGAAC
 AATTGGAGTTGCAGCAAAAAACAGCAATCACTCATGCAACAATACGGTGTCTAGCTTTAAGAGATTT
 CATGGCAGAGCATTCAATGATCCCTTATTCAAAGGAAAAGGAAAACCTGAGCTATGATTTGGTCCCAA
 TGAAGAATGGTGGTGTGGAATAAAGGTCATGTACATGGACGAAGACCATCTCTTAGCGTGGAGCAGAT
 AACAGCCATGCTGCTGACTAAGTTGAAGGAACTGCGGAAAACAACCTCAAGAAGCCGGTACAGACTGT
 GTCATCTCGTCCCGTCTTCTCACAGATGCTGAGAGGAGGTCTGTTCTGGATGCCGCACAGATTGTGG
 GCTTGAAGTCTTGGCGCTCATGAATGACATGACGGCTGTTGCTTTGAATTATGGAATTTATAAGCAGGA
 TCTCCCGAATGCAGACGAGAAACCCGAGTCGTGGTGTGTTGGGACATGGGACACTCCTCTTTCCAAGT
 TCTGCCTGTGCTTTAAACAAAGGAAAAGTGAAGTTCTAGGCACAGCTTTTGATCCCTTCTTTGGGAGGAA
 AGAACTTTGACGAGAAGCTCGTAGAGCATTGTTGTGCTGAATTTAAAACCAAGTACAAATAGATGCAAA
 ATCCAAAATTCGAGCCCTCCTTCGTCTCCATCAGGAGTGTGAAAAGTTAAAGAAGCTCATGAGTTCTAAC
 AGCACAGACCTGCCGCTGAACATTGAGTGTCTTATGAATGACAAGGACGTCTCTGCAAAGATGAACAGGT
 CACAGTTTGAAGAAGTGTGTGCTGAGCTCTACAAAAATAGAGGTCCCTTCACTTGTGATGGAACA
 AACTCACCTCAAGACTGAAGAAGTGAAGCGCCATTGAGATAGTTGGAGGAGCCACAAGAATCCAGCTGTG
 AAGGAAAGAAATGCCAGATTCTTTGGGAAAGACGTCACTACCACGCTCAACGCAGACGAGGCTGGGCTA
 GAGGGTGGCAGCTGCAGTGTGCAATTCTTCCGGCATTTAAAGTTAGAGAGTTCTCCGTCACCGATGC
 AGTTCCTTTCCCAATATCTCTGGTCTGGAACCATGACTCAGAAGAACTGAAGGTGTTCCAGAGGTGTT
 AGTCGGAACCATGCTGCTCCTTTCTCAAAGTGTCTCACCTTCTGAGAAGGGGACCTTTGAACTAGAAG
 CTTTCTATTCTGACCCTCAAGCAGTTCATATCCAGAAGCAAAAAATCGGCCGTTTTGTCGTTCAGAATGT
 TTCTGCACAGAAAGATGGAGAAAAATCTAAAGTAAAAGTCAAAGTGCCTGTGAACACACATGGCATTTC
 ACCATATCCACGGCATCCATGGTGGAAAAAGTCCCGACTGAGGAGGAGGATGGTCTCTGTGAGGCGAG
 ACATGGAGTGTCAAACAGAAACAGCAGAAAGCTCGGATGTGGATAAAAAATCCAGCAAGACAACAG
 TGAAGCTGGAACACAGCCCCAGGTACAACTGATGGTCAACAAACCTCACAGTCTCCCCCTCACCTGAA
 CTTACCTCAGAAGAAAACAAAATCCAGATGCTGACAAAGCAAAATGAAAAGAAAGTTGATCAGCCTCCAG
 AAGCCAAAAAACCTAAAATAAAGGTGGTAAACGTTGAGCTGCCTGTTGAAGCCAACCTGGTGTGGCAGCT
 AGGGAGGGACCTTCTGAACATGTACATCGAGACGGAGGGCAAGATGATCATGCAGGACAAGCTGGAGAAG
 GAGAGGAACGATGCTAAGAACCGCTGGAGGAGTGTGTATGAGTTCAGAGACAAGCTGTGTGGACCGT
 ATGAGAAATTTATATGTGAGCAGGAACACGAGAAGTTTCTGAGGCTTCTCACAGAGACAGAAGACTGGCT
 GTATGAGGAAGGAGAGGACCAAGCAAGCAGGCCATATTGACAAGTTGGAAGAATTGATGAAAATGGGC
 ACTCCTGTAAAAGTCAGATTTCAAGAAGCCGAGGAGCGACCGAGAGTGTGGAGGAGCTAGGCCAGCGCC
 TACAGCACTATGCCAAGATCGCAGCAGACTTCAGAGGCAAGGATGAGAAATACAACCACATAGATGAATC
 TGAATGAAGAAGTTGAGAAGTCTGTTAACGAGGTGATGGAGTGGATGAATAATGTCATGAATGCTCAG
 GCTAAACGGAGTCCATCAGGACCCTGTTGTGCGCACTCATGAGATCAGCGCTAAGGTCAAGGAACTGA
 ACAATGTTTGTGAACCTGTTGTAACCAACCAAAAAATTGAGTCACTAACTGGAGAGAACTCC
 AAATGGCCAAAATATGGACAAGAAAGAAGATCTAGAAGGCAAGAGTAATCTCGGTGCTGACGCTCCACAT
 CAGAACGGTGAATGCCACCCTAATGAGAAGGGCTCTGTCAGCATGGACCTGGACT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001011901
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:	<u>NM_001011901.1</u> , <u>NP_001011901.1</u>
RefSeq Size:	3453 bp
RefSeq ORF:	2577 bp
Locus ID:	288444
UniProt ID:	<u>Q66HA8</u>
Cytogenetics:	12p11
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 substrate release. 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.[UniProtKB/Swiss-Prot Function]