

Product datasheet for **RR206138**

Hspd1 (NM_022229) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspd1 (NM_022229) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspd1
Synonyms:	Hsp60; Hspd1-30p
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206138 representing NM_022229
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTCGACTACCCACAGTCCCTCGCCAGATGAGACCAGTGTCTCGGGCACTGGCTCCTCATCTCACTC
 GGGCCTATGCCAAAGATGTAAAATTTGGTGCGGATGCTCGAGCCTAATGCTTCAAGGTGTAGACCTTTT
 AGCCGATGCTGTAGCTGTTACAATGGGGCCAAAGGAAGAAGCAAGTATTGAACAGAGTTGGGGAAGT
 CCCAAAGTAACAAAAGATGGGGTCACTGTTGCAAAGTCAATTGATTTAAAGGATAAATACAAAAATATCG
 GAGCTAAGCTTGTTCAGGATGTTGCCAATAACACAAATGAAGAGGCTGGGGATGGCACCACCCTGCCAC
 TGTTCTGGCACGGTCTATTGCCAAGGAGGGCTTTGAGAAGATCAGCAAAGGGCTAATCCAGTGGAAATC
 CGGAGAGGTGTGATGTTGGCTGTTGATGCTGTAATTGCTGAACCTAAGAAACAATCTAAACCTGTGACAA
 CCCCTGAAGAAATGCTCAGGTTGCTACAATTTCTGCAAACGGAGACAAAGACATTGGGAACATCATTTT
 TGATGCAATGAAGAAGGTTGGAAGAAAGGTTGTCATCACAGTGAAGGATGGAAAAACCTGAATGATGAG
 CTAGAAAATTATTGAAGGCATGAAGTTTGATAGAGGATATATTTCCCATATTTTATTAACACATCAAAG
 GTCAAAAATGTGAATCCAAGATGCCTATGTTTTGTTGAGTGAAAAGAAAATTTCTAGTGTTCAGTCCAT
 TGTACCTGCTCTTGAAATGCCAATGCTCACCGGAAGCCCTTGGTCATAATTGCTGAAGATGTTGATGGA
 GAAGCTCTTAGCACACTGGTTTTGAACAGGCTAAAAGTTGGTCTTCAGGTTGTAGCAGTCAAAGCTCCAG
 GGTTTTGGGGACAACAGGAAGAACCAGCTTAAAGATATGGCTATCGCTACTGGTGGTGCAGTGTGGAGA
 AGAGGGTTTGAATCTAAATCTTGAAGATGTTCAAGCTCATGATTTAGGGAAAGTTGGAGAGGTATCGTC
 ACCAAAGATGATGCCATGCTTTTGAAGGAAAAGGTGACAAAGCTCACATTGAAAAACGTATTCAAGAAA
 TCACTAGCAGCTAGACATCACTAGTGAATATGAGAAGGAAAAGTGAACGAGCGACTTGTCTAACT
 CTCAGATGGAGTAGCTGTGTTGAAGGTTGGAGGACAAGTATGTTGAAGTGAATGAGAAGAAAGACAGA
 GTTACAGATGCTCTCAATGCTACAGAGCAGCTGTTGAAGAAGGCATTGTTCTAGGAGGGGGCTGTGCTC
 TACTTCGGTGCATCCCAGCCTTGGATTCATTAAGCCTGCTAATGAAGATCAGAAGATAGGTATAGAAAT
 TATTAAGAGCACTTAAATTCCTGCAATGACAATTGCTAAGAATGCAGGTGTTGAAGGATCTTTGATA
 GTTGAAAAAATTCGAGAGTTCCTCAGAGTTGGCTATGATGCCATGCTTGGAGATTTTGTGAACATGG
 TGGAAAAGGGAATCATTGATCCAACAAGGTTGTAAGAAGTCTTACTGGATGCTGCTGGGGTGGCCTC
 CCTGCTAACTACAGCCGAAGCTGTAGTGACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAATGGGTGCA
 ATGGGTGGAATGGGAGGGGTATGGGAGGTGCCATGTTT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206138 representing NM_022229
 Red=Cloning site Green=Tags(s)

MLRLPTVLRQMRPVSRLAPHL TRAYAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIIIEQSWGS
 PKVTKDGVTVAKSIDLKDYKNIGAKLVQDVANNTNEEAGDGTTTATVLARSLAKEGFEKISGANPVEI
 RRGVMLAVDAVIAELKKQSKPVTTPEEIAQVATISANGDKDIGNIISDAMKKVGRKGVITVKDGKTLNDE
 LEIIEGMKFDRGYISPYFINTSKGQKCEFQDAYVLLSEKKISSVQSIIVPALEIANAHKPLVIIAEDVDG
 EALSTLVLNRLKVGLQVVAVKAPGFGDNRKNQLKDMAIATGGAVFGEEGLNLNLEDVQAHLGKVGVEIV
 TKDDAMLLKKGDKAHIEKRIQEITEQLDITTEYEKEKLNERLAKLSDGVAVLKVGGTSDVEVNEKDR
 VTDALNATRAVEEGIVLGGCALLRCIPALDSLKPANEDQKIGIEIIKRALKIPAMTIKNAGVEGSLI
 VEKILQSSSEVGYDAMLGDFVNMVEKGIIDPTKVVRTALLDAAGVASLLTTAEAVVTEIPKEEKDPGMGA
 MGGMGGMGGGMF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

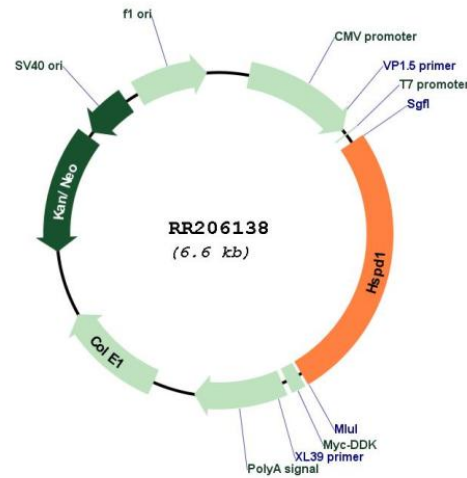
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_022229
 ORF Size: 1719 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_022229.2 , NP_071565.2
RefSeq Size:	2255 bp
RefSeq ORF:	1722 bp
Locus ID:	63868
UniProt ID:	P63039
Cytogenetics:	9q31
MW:	61 kDa
Gene Summary:	a stress-inducible molecular chaperone which participates in protein folding [RGD, Feb 2006]