

## Product datasheet for MR205444

### Hspbp1 (NM\_024172) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hspbp1 (NM_024172) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspbp1
Synonyms:	1500019G21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205444 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGACAAAGGCTCAGGGGGCAGTCGCCTCCCTCTTGCGTTGCCTCCGGCCTCTCAGGGTTGCTCGT  
CAGGGGGCAGTGGTTCTCGGCGGGGGCTCAGGCAACCCCGGCCTCCACGGAACCTCCAAGGCCTGCT  
GCAGATGGCTATTACTGCGGGTTCTCAGGAGCCAGACCCCTCCAGAACCCATGAGCGAGGAGAGACGC  
CAATGGCTGCAGGAAGCCATGTCGGCCGCTTCCGGGGCCAGCGAGAGGAGGTGGAGCAGATGAAGAACT  
GCCTCCGGGTCTGTCCCAGGCCACCCGCAATGGCTGGCGAAGCTGAGCTGGCCACTGACCAGCAGGA  
GGTGAAGGCGCACTAGAGCTGCTGGCAGACCTGTGCGAGAACATGGACAATGCAGCAGATTTCTGCCAG  
CTGTCAAGGCATGCATCTGCTGGTGGGTCGATACCTGGAGGCAGGGGCTGCAGGGCTGCGCTGGAGGGCAG  
CACAGCTCATCGGCACATGCAGTCAGAACGTTGCAGCCATCCAGGAGCAGGTGTTGGGCTTGGGTGCCCT  
GCGCAAGCTACTTCGGCTGCTCGACCGGGACTCCTGCGACACGGTACGAGTCAAGGCTCTCTTCGCCATC  
TCCTGTCTCGTCCGAGAGCAGGAGGCTGGGTTGCTGCAGTTCTCCGCCTGGATGGATTCTCAGTGTGA  
TGCGGGCCATGCAGCAGCAAGTGCAGAAGCTCAAGGTCAAGTCAGCATTCTGCTGCAGAACTTGTGTT  
GGGCCACCCTGAGCACAAGGAACCCCTTGTCTCCATGGGATGGTCCAGCAGCTGGTGGCCCTTGTGAGG  
ACAGAACACAGTCTTTCCATGAGCATGTGCTTGGAGCCCTGTGCAGCCTTGTGACAGATTTCCCTCAGG  
GGTTCGTGAATGCCGGGAGCCTGAGCTGGGCCTGGAGGAACTGCTCCGCCACCGCTGCCAGCTGCTGCA  
GCAGCGTGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAAAAGCTGTTACAGACCTGTTTCTCTAGCCCT  
ACGGACGACAGCATGGATCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205444 protein sequence  
 Red=Cloning site Green=Tags(s)

MADKGGSGSRLPLALPPASQGCSSGGSGSSAGGSGNPRPPRNLLQGLLQMAITAGSQEPDPPPEPMSEERR  
 QWLQEAMSAAFRGQREEVEQMKNCLRVL SQATPAMAGEAELATDQQEREGALELLADLCENMDNAADFCQ  
 LSGMHLLVGRYLEAGAAGLRWRAAQLIGTCSQNVAIQEQVLGLGALRKLRLDRDSCDTV RVKALFAI  
 SCLVREQEAGLLQFLRLDGF SVLMRAMQQVQKLVKSAFLLQNLLVGHPEHKGTLC SMGMVQQLVALVR  
 TEHSPFHEHVLGALCSLVTDFPQGVRECREPELGLEELLRHCQLLQ QREEYQEELEFCEKLLQTCFSSP  
 TDDSMDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024172

**ORF Size:** 1074 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:**

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\\_024172.2](#)

**RefSeq Size:** 1488 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 66245

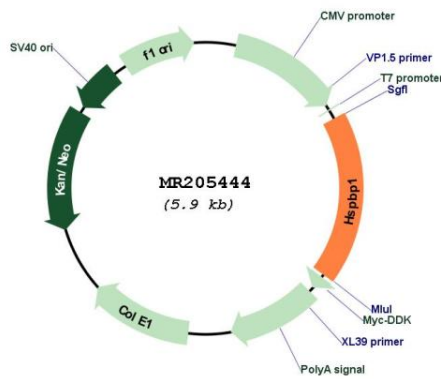
**UniProt ID:** [Q99P31](#)

**Cytogenetics:** 7 A1

**MW:** 39.2 kDa

**Gene Summary:** Inhibits HSPA1A chaperone activity by changing the conformation of the ATP-binding domain of HSPA1A and interfering with ATP binding. Interferes with ubiquitination mediated by STUB1 and inhibits chaperone-assisted degradation of target proteins (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205444