

## Product datasheet for RR211582

### Hspb1 (NM\_031970) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hspb1 (NM\_031970) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hspb1  
**Synonyms:** Hsp25; Hsp27  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211582 representing NM\_031970  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACCGAGCGCCGCGTGCCTTCTCGCTACTGCGGAGCCCCAGCTGGGAGCCGTTCCGGGACTGGTACC  
CTGCCCACAGCCGCTCTTCGATCAAGCTTTCGGGGTGCCTCGTTTCCCGATGAGTGGTCTCAGTGGTT  
CAGCTCCGCTGGTTGGCCCGGCTATGTGCGCCCTCTGCCCGCCGACCCGAGGGCCCGCAGCAGTG  
ACCCTGGCCGCGCCGCTTCAGCCGGGCGCTCAACCGCAACTCAGCAGCGGTGTCTCAGAGATCCGAC  
AGACGGCCGATCGCTGGCGCGTGTCCCTGGACGTCAACCACTTCGCTCCTGAGGAGCTCACAGTTAAGAC  
CAAGGAAGGCGTGGTGGAGATCACTGGCAAGCACGAAGAAAGGCAGGATGAACATGGCTACATCTCTCGG  
TGCTTACCCGGAAATACACGCTCCCTCCAGGTGTGGACCCACCCCTGGTGTCTCTTCCCTGTCCCTG  
AGGGCACACTCACCGTGGAGGCTCCGCTGCCAAAGCAGTCACACAATCAGCGGAGATCACCATTCCGGT  
CACTTTCGAGGCCCGTGCCCAAATGGAGGCCAGAGTCGGAACAGTCTGGAGCCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211582 representing NM\_031970  
Red=Cloning site Green=Tags(s)

MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDAQFGVPRFPDEWSQWFSSAGWPGYVRPLPAATAEGPAAV  
TLAAPAFSRALNRQLSSGVSEIRQTADRWRVSLDVNHF APEEL TVKTKEGVVEITGKHEERQDEHGYSR  
CFTRKYTLPPGVDP TLVSSSLSP EGT LTV EAPLPKAVTQSAEITIPVTFEARAQIGPPESEQSGAK

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDK V

**Restriction Sites:** SgfI-MluI

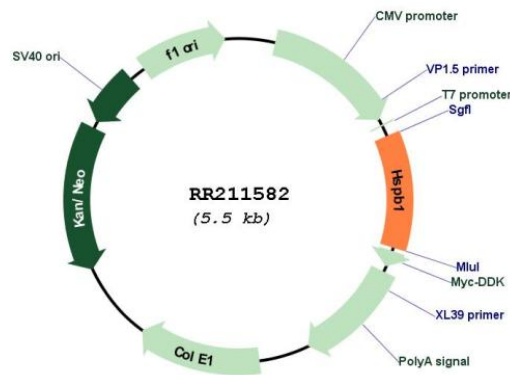


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_031970

ORF Size: 618 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\\_031970.4](#), [NP\\_114176.4](#)

**RefSeq Size:** 890 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 24471

**Cytogenetics:** 12q12

**MW:** 22.8 kDa

**Gene Summary:** putative heat shock protein; human homolog may suppress polyglutamine-mediated cell death and mutations in human gene are associated with various neuropathies and some forms of Charcot-Marie-Tooth disease [RGD, Feb 2006]