

Product datasheet for **MC203704**

Hspb1 (NM_013560) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hspb1 (NM_013560) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hspb1
Synonyms: 27kDa; Hsp25
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC018257
 GCACGCTGGGGCTCCAGTCCGGCACTTCTCGGATCCTCAGCCCAGTGCTTCTAGATCCTCAGCCTTGACC
 AGCCAAGAACATGACCGAGCGCCGCGTGCCTTCTCGCTGCTGCGGAGCCCGAGCTGGGAACCATTCGGG
 GACTGGTACCCTGCACACAGCCGCTCTTCGATCAAGCTTTCGGGGTGCCCGGTTGCCCGATGAGTGGT
 CGCAGTGGTTCCAGCGCCGCTGGGTGGCCCGGATACGTGCGCCCGCTGCCCGCCGACCGCCGAGGGCCC
 CGCGGGCGGTGACCCTGGCCGACCCAGCCTTCCAGCCGAGCGCTCAACCGACAGCTCAGCAGCGGGTCTCG
 GAGATCCGACAGACGGCTGATCGCTGGCGCGTGTCCCTGGACGTCAACCACTTCGCTCCGGAGGAGCTCA
 CAGTGAAGACCAAGGAAGGCGTGGTGGAGATCACTGGCAAGCACGAAGAAAGGCAGGACGAACATGGCTA
 CATCTCTCGGTGCTTACCCGGAAATACACGCTCCCTCCAGGTGTGGACCCACCCTAGTGTCTCTTCC
 CTATCCCCTGAGGGCACACTTACCGTGGAGGCTCCGTTGCCAAAGCAGTCACGCAGTCAGCGGAGATCA
 CCATTCGGTTACTTTTCGAGGCCCGGCCAAATTGGGGGCCAGAAAGCTGGGAAGTCTGAACAGTCTGG
 AGCCAAGTAGAAGCCATCAGCCTGCTGCCTATCTCCCATAGCCATTGCTGGCCACCCTCTCTGTCAATC
 TGTGCGCTCTTTTGATACATACATTTACCTGCTGTTTTTCTCAAATAAAAGTTGCAAGCTACTGCTCACC
 ACAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_013560

Insert Size: 630 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).



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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: [BC018257](#), [AAH18257](#)

RefSeq Size: 862 bp

RefSeq ORF: 630 bp

Locus ID: 15507

UniProt ID: [P14602](#)

Cytogenetics: 5 75.51 cM

Gene Summary: Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding-competent state. Plays a role in stress resistance and actin organization (PubMed:17661394). Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (By similarity).[UniProtKB/Swiss-Prot Function]