OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR202214

Hspb1 (NM_013560) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hspb1 (NM_013560) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hspb1
Synonyms:	27kDa; Hsp25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR202214 representing NM_013560
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGAGCGCCGCGTGCCCTTCTCGCTGCTGCGGAGCCCGAGCTGGGAACCATTCCGGGACTGGTACC
CTGCACACAGCCGCCTCTTCGATCAAGCTTTCGGGGTGCCCCGGTTGCCCGATGAGTGGTCGCAGTGGTT
CAGCGCCGCTGGGTGGCCCGGATACGTGCGCCCGCTGCCCGCCGCGACCGCCGAGGGCCCCGCGGCGGTG
ACCCTGGCCGCACCAGCCTTCAGCCGAGCGCTCAACCGACAGCTCAGCAGCGGGGTCTCGGAGATCCGAC
AGACGGCTGATCGCTGGCGCGTGTCCCTGGACGTCAACCACTTCGCTCCGGAGGAGCTCACAGTGAAGAC
CAAGGAAGGCGTGGTGGAGATCACTGGCAAGCACGAAGAAAGGCAGGACGAACATGGCTACATCTCTCGG
TGCTTCACCCGGAAATACACGCTCCCTCCAGGTGTGGACCCCACCCTAGTGTCCTCTTCCCTATCCCCTG
AGGGCACACTTACCGTGGAGGCTCCGTTGCCCAAAGCAGTCACGCAGTCAGCGGAGATCACCATTCCGGT
TACTTTCGAGGCCCGCGCCCAAATTGGGGGCCCAGAAGCTGGGAAGTCTGAACAGTCTGGAGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR202214 representing NM_013560
Red=Cloning site Green=Tags(s)

MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDQAFGVPRLPDEWSQWFSAAGWPGYVRPLPAATAEGPAAV
TLAAPAFSRALNRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKEGVVEITGKHEERQDEHGYISR
CFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKAVTQSAEITIPVTFEARAQIGGPEAGKSEQSGAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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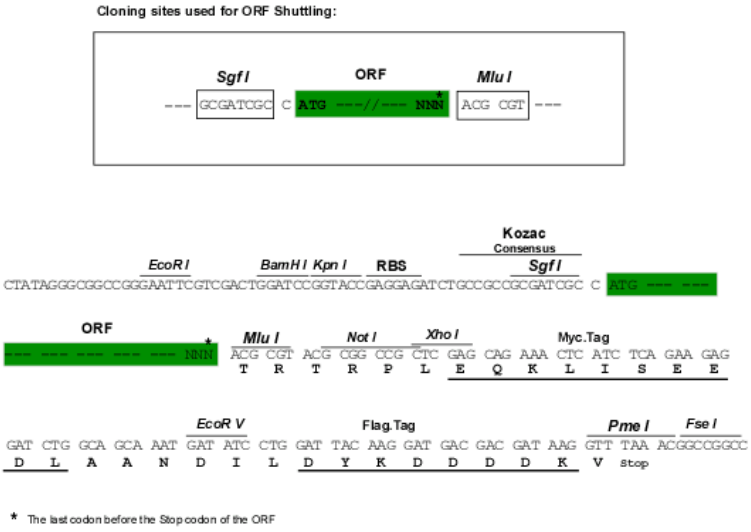
Chromatograms: https://cdn.origene.com/chromatograms/mm9032_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013560

ORF Size: 627 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_013560.2, NP_038588.2

RefSeq Size: 913 bp

RefSeq ORF: 630 bp

Locus ID: 15507

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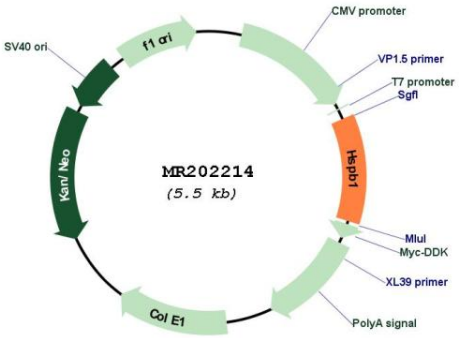
UniProt ID: P14602

Cytogenetics: 5 75.51 cM

MW: 23.5 kDa

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]

Product images:



Circular map for MR202214

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