

Product datasheet for MG202214

Hspb1 (NM_013560) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Hspb1 (NM_013560) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Hspb1

Synonyms: 27kDa; Hsp25

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG202214 representing NM_013560

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACCGAGCGCCGCGTGCCCTTCTCGCTGCTGCGGAGCCCGAGCTGGGAACCATTCCGGGACTGGTACC
CTGCACACAGCCGCCTCTTCGATCAAGCTTTCGGGGTGCCCCGGTTGCCCGATGAGTGGTCGCAGTGGTT
CAGCGCCGCTGGGTGGCCCGGATACGTGCGCCCGCTGCCCGCGCGAGCGCCCGCGGGGGTG
ACCCTGGCCGCACCAGCCTTCAGCCGAGCGCTCAACCGACAGCTCAGCAGCGGGGTCTCGGAGATCCGAC
AGACGGCTGATCGCTGGCGCGTGTCCCTGGACGTCAACCACTTCGCTCCGGAGGAGCTCACAGTGAAGAC
CAAGGAAGGCGTGGTGGAGATCACTGGCAAGCACGAAGAAAGGCAGGACCAACATGGCTACATCTCTCGG
TGCTTCACCCGGAAATACACGCTCCCTCCAGGTGTGGACCCCACCCTAGTGTCCTCTTCCCTATCCCCTG
AGGGCACACTTACCGTGGAGGCTCCGTTGCCCAAAGCAGTCACGCAGTCAGCGGAGATCACCATTCCGGT
TACTTTCGAGGCCCGCCCCAAATTGGGGGCCCCAGAAGCTGGGAAGTCTGAACAGTCTGGAGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202214 representing NM_013560

Red=Cloning site Green=Tags(s)

MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDQAFGVPRLPDEWSQWFSAAGWPGYVRPLPAATAEGPAAV TLAAPAFSRALNRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKEGVVEITGKHEERQDEHGYISR CFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKAVTQSAEITIPVTFEARAQIGGPEAGKSEQSGAK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

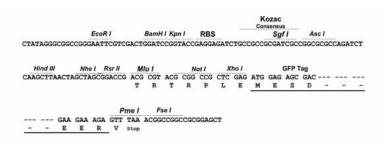
CN: techsupport@origene.cn

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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: <u>NM 013560.2</u>, <u>NP 038588.2</u>

 RefSeq Size:
 913 bp

 RefSeq ORF:
 630 bp

 Locus ID:
 15507

 UniProt ID:
 P14602

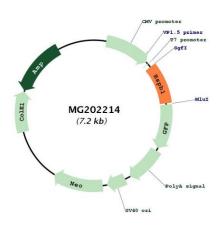
 Cytogenetics:
 5 75.51 cM



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]

Product images:



Circular map for MG202214