

## **Product datasheet for MG222204**

## Hspb6 (NM 001012401) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Hspb6 (NM\_001012401) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Hspb6

**Synonyms:** AA387366; Gm479; Hsp20

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG222204 representing NM\_001012401 Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGGCGCCCC

ATGGAGATCCCCGTGCCTGTGCAGCCTTCTTGGCTGCGCCGTGCTTCAGCTCCTTTACCAGGTTTCTCTG
CTCCGGGACGCCTCTTTGACCAGCGTTTCGGCGAAGGGCTGCTTGAGGCAGAGCTGGCTTCACTGTGCCC
TGCTGCGATCGCCCCCTACTATCTGCGCGCCCCCCAGTGTGGCGTTACCCACAGCCCAGGTGTCCACGGAC
TCTGGGTATTTTTCCGTGCTGGATGTGAAGCACTTCTTGCCAGAGGAAATCTCTGTCAAGGTGGTTG
ACGACCATGTGGAGGTCCATGCTCGGCACGAGGAGCGCCCGGATGAACACGGATTCATTGCTCGAGAGTT
CCACCGCCGATACCGCCTGCCTCCTGGTGTGGACCCTGCTGCTGTGACCTCAGCACTGTCTCCTGAGGGT
GTCCTGTCCATCCAGGCCACACCAGCGTCGGCCCAGGCCCAACTTCCGTCACCACCTGCTGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222204 representing NM\_001012401

Red=Cloning site Green=Tags(s)

MEIPVPVQPSWLRRASAPLPGFSAPGRLFDQRFGEGLLEAELASLCPAAIAPYYLRAPSVALPTAQVSTD SGYFSVLLDVKHFLPEEISVKVVDDHVEVHARHEERPDEHGFIAREFHRRYRLPPGVDPAAVTSALSPEG

VLSIQATPASAQAQLPSPPAAK

TRTRPLE - GFP Tag - V

**Restriction Sites:** Ascl-Mlul



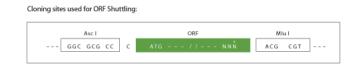
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

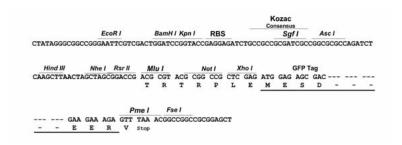
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

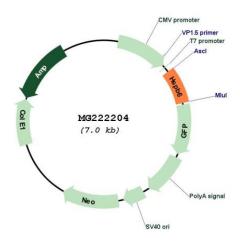


## **Cloning Scheme:**





## Plasmid Map:



**ACCN:** NM 001012401

ORF Size: 486 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 001012401.3</u>

RefSeq Size: 1383 bp
RefSeq ORF: 489 bp
Locus ID: 243912
UniProt ID: Q5EBG6
Cytogenetics: 7 B1

**Gene Summary:** Small heat shock protein which functions as a molecular chaperone probably maintaining

denatured proteins in a folding-competent state. Seems to have versatile functions in various biological processes. Plays a role in regulating muscle function such as smooth muscle vasorelaxation and cardiac myocyte contractility. May regulate myocardial angiogenesis implicating KDR. Overexpression mediates cardioprotection and angiogenesis after induced damage. Stabilizes monomeric YWHAZ thereby supporting YWHAZ chaperone-like activity.

[UniProtKB/Swiss-Prot Function]

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