

Product datasheet for **RG214718**

HSPB2 (NM_001541) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSPB2 (NM_001541) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HSPB2
Synonyms: Hs.78846; HSP27; LOH11CR1K; MKBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214718 representing NM_001541
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCGCTCAGTGCCACATGCCACCCGGCCACCGCCGAGTACGAATTTGCCAACCCGAGCCGCC
TGGGTGAGCAGCGCTTCGGAGAAGGCCTCTGCCAGAAGAGATCTGACCCACACTCTACCATGGCTA
CTATGTCCGGCTCGGGCCGCCAGCTGGGGAGGCAGCAGGGCAGGGGCTCCGAGCTTAGGCTCAGT
GAGGGCAAGTTCCAGGCATTTCTGGATGTGAGCCACTTTACCCAGACGAGGTGACTGTGAGGACTGTGG
ATAACCTGCTGGAGGTGTCTGCCGGCACCCAGCGCCTGGACCGCCACGGCTTCGTGTCCCGAGAGTT
CTGCCGCACCTATGTCTGCCTGCTGATGTGACCCCTGGCGAGTCCGAGCTGCTCTCCCATGATGGC
ATCTTAAACCTGGAAGCACCTCGGGGTGGCCGACATTTGGACACAGAGGTCAATGAGGTCTACATCTCCC
TGCTCCCTGCGCTCCTGATCCAGAGGAAGAGGAGGAGGCAGCCATAGTTGAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214718 representing NM_001541
Red=Cloning site Green=Tags(s)

MSGRSVPHAHPTAEYEFANPSRLGEQRFGEGLLPEEILTPTLYHGYYVRPRAAPAGEGSRAGASELRSL
EGKFQAFLDVSHFTPDEVTVRTVDNLLVSARHPQRLDRHGFVSREFCRTYYVLPADVDPWRVRAALSHDG
ILNLEAPRGRHLDTEVNEVYISLLPAPPDPEEEEEAAIVEP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001541

ORF Size: 546 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_001541.4](#)

RefSeq Size: 820 bp

RefSeq ORF: 549 bp

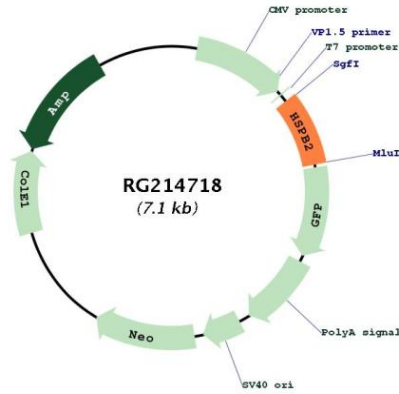
Locus ID: 3316

UniProt ID: [Q16082](#)

Cytogenetics: 11q23.1

Gene Summary: The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The protein is expressed preferentially in the heart and skeletal muscle. This protein regulates Myotonic Dystrophy Protein Kinase, which plays an important role in maintenance of muscle structure and function. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG214718