

Product datasheet for RC220525

HSPB3 (NM_006308) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSPB3 (NM_006308) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HSPB3
Synonyms: DHMN2C; HMN2C; HSPL27
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220525 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAAATCATTTTGAGGCACCTCATAGAGATTCCAGTGCCTTACCAGGAAGAGTTTGAAGCTCGAG
GTCTAGAAGACTGCAGGCTGGATCATGCTTTATATGCACTGCCTGGGCCAACCATCGTGGACCTGAGGAA
AACCGGGCAGCGCAGTCTCCTCCAGTGGACTCAGCGGCAGAGACGCCACCCCGAGAAGGCAAATCCCAC
TTTCAGATCCTGCTGGACGTGGTCCAGTTCCTCCCTGAAGACATCATCATTAGACCTTCGAAGGCTGGC
TACTGATAAAAAGCACAACACGGAACCGAATGGATGAGCACGGTTTTATCTCAAGAAGCTTCACCCGACA
GTACAAACTACCAGATGGCGTGGAAATCAAAGATTTGTCTGCAGTCTCTGTCATGATGGAATTTGGTG
TGGAAGTAAAGGATCCAGTTGGGACTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220525 protein sequence
Red=Cloning site Green=Tags(s)
MAKIILRHLIEIPVRYQEEFEARGLEDCLDHALYALPGPTIVDLRKTRAAQSPPVDSAAETPPREGKSH
FQILLDVVQFLPEDIIITQTFEGWLLIKAQHGTRMDEHGFISRSFTRQYKLPDGVIEIKDLSAVLCHDGI
LVEVKDPVGTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6470_g12.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006308

ORF Size: 450 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_006308.1](#), [NP_006299.1](#)

RefSeq Size: 787 bp

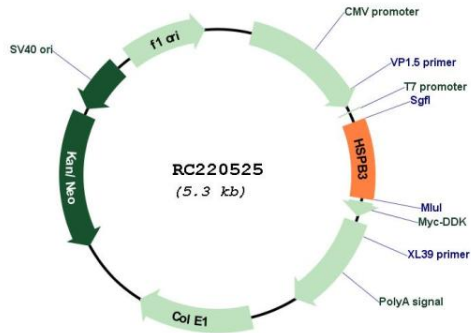
RefSeq ORF: 453 bp

Locus ID: 8988

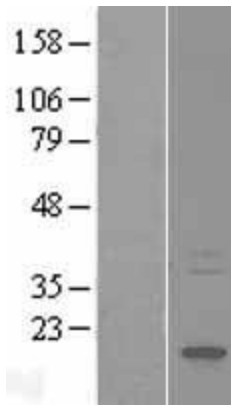
UniProt ID: [Q12988](#)
 Cytogenetics: 5q11.2
 MW: 17 kDa

Gene Summary: This gene encodes a muscle-specific small heat shock protein. A mutation in this gene is the cause of autosomal dominant distal hereditary motor neuropathy type 2C.[provided by RefSeq, Sep 2010]

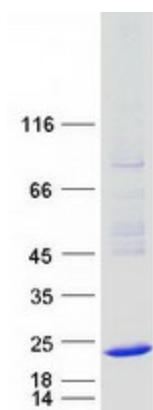
Product images:



Circular map for RC220525



Western blot validation of overexpression lysate (Cat# [LY416734]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220525 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSPB3 protein (Cat# [TP320525]). The protein was produced from HEK293T cells transfected with HSPB3 cDNA clone (Cat# RC220525) using MegaTran 2.0 (Cat# [TT210002]).