

Product datasheet for **RC222132**

DNAJB5 (NM_012266) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB5 (NM_012266) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJB5
Synonyms:	Hsc40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222132 representing NM_012266 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAAGATTATTACAAGATTCTTGGGATCCCATCGGGGCCAACGAGGATGAGATCAAGAAAGCCT
ACCGGAAGATGGCCTTGAAGTACCACCCAGACAAGAATAAAGAACCCAACGCTGAGGAGAAGTTAAGGA
GATTGCAGAGGCCTATGATGTGCTAAGTGACCCCAAGAAACGGGGCCTGTATGACCAGTATGGGGAGGAA
GGCCTGAAGACCGCGGTGGCACATCAGGTGGCTCCAGTGGCTCCTTTCCTACTACACCTTTCATGGGGACC
CCCATGCCACCTTGCCTCCTTCTTGGTGGCTCCAACCCCTTCGATATCTTCTTGGCCAGCAGCCGCTC
CACTCGGCCCTTCAGTGGCTTTCAGCCAGATGACATGGATGTGGATGAAGATGAGGACCCATTTGGCGCT
TTCGGCCGTTTTGGCTTCAATGGGCTGAGTAGGGTCCAAGGCGAGCCCAAGAACCTGTACCCTCGGC
GCAAGGTGCAGGACCCCCAGTGGTGCACGAGCTGCGGGTGTCCCTGGAGGAGATCTACCATGGCTCCAC
CAAGCGCATGAAGATCACAAGGCGTGCCTCAACCCTGATGGCGAAGTGTGCGCACCGAGGACAAGATC
CTGCACATAGTCATCAAGCGTGGCTGGAAGGAAGGCACCAAGATCACCTTCCCCAAAGAAGGCGACGCCA
CACCTGACAACATCCCTGCTGACATCGTCTTGTGCTCAAAGACAAGCCCCATGCACACTCCGCCGAGA
TGGCACCAACGTGCTCTACAGTGCCTGATCAGCCTCAAGGAGGCGCTGTGTGGCTGCACCTGTGAACATT
CCCCTATCGACGCGCGAGTATCCCTTTCGCCCTGCAATGATGTCATCAAGCCAGGACCCGTGAAGAGAC
TCCGTGGGGAGGGCCTTCCCTTCCCCAAAGTGCCAACTCAGCGAGGAGACCTCATTGTTGAGTTCAAAGT
TCGCTTCCAGACAGATTAACACCACAGACAAGACAGATCCTTAAGCAGCACCTACCCTGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222132 representing NM_012266
Red=Cloning site Green=Tags(s)

MGKDYYKILGIPSGANEDEIKKAYRKMALKYHPDKNKEPNAAEKFKEIAEAYDVLSDPKKRGLYDQYGEE
 GLKTGGGTSGGSSGSFHYTFHGDPHATFASFSGSNPFDIFFASSRSTRPFSGFDPDDMDVDEDEDPFGA
 FGRFGFNLSRGPRAPEPLYPRRKVQDPPVVHELRLVSLLEEIYHGSTKRMKITRRRLNPDGRTVVRTEDKI
 LHIVIKRGWKEGKTIKTFPKEGDATPDNIPADIVFVLKDKPHAHFRRDGTNVLYSALISLKEALCGCTVNI
 PTIDGRVIPLPCNDVIKPGTVKRLRGEGLPFPKVPTRQGDLLIVEFKVRFDPDLTPQTRQILKQHLPCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6511_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012266

ORF Size: 1044 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_012266.6](#)

RefSeq Size: 2462 bp

RefSeq ORF: 1047 bp

Locus ID: 25822

UniProt ID: [O75953](#)

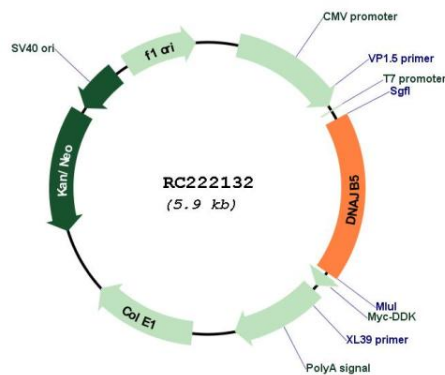
Cytogenetics: 9p13.3

Domains: DnaJ, DnaJ_C

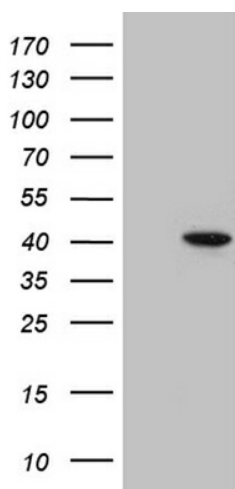
MW: 39 kDa

Gene Summary: This gene encodes a member of the DNAJ heat shock protein 40 family of co-chaperone proteins. The encoded protein contains an N-terminal DNAJ domain and a C-terminal substrate binding domain but lacks the cysteine-rich domain found in other DNAJ family members. In mice, a multi-protein complex containing this protein, thioredoxin 1, and histone deacetylase 4, serves as a master negative regulator of cardiac hypertrophy. [provided by RefSeq, Mar 2017]

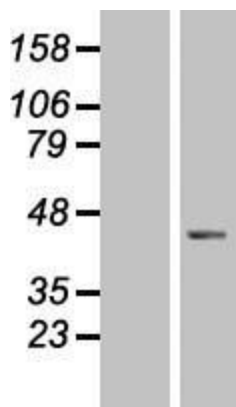
Product images:



Circular map for RC222132



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DNAJB5 (Cat# RC222132, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DNAJB5 (Cat# [TA810900])(1:2000). Positive lysates [LY415870] (100ug) and [LC415870] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415870]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222132 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).