

Product datasheet for **RC225584**

DNAJB5 (NM_001135004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB5 (NM_001135004) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC225584 representing NM_001135004
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGGCGCGGAGGCGGAGCCGTGGGGCGGGCTCCCGTCCCGCTATCGGCGCCGGCGGGCAGGCG
 ACTCCTGTCCCGGTGGAGGCGGCGGAGCCGAGCCGGGGAGGGGGCAGCGGCTGTCTACGGACCACG
 GCGGCGCCCGCAGCTCCTCACCGCAGCACCCCACTGCAGGCCCGAGGAGCTTCCGGAGCTTCCACAC
 TCCTGGGAGAAGACTTCTTAGCCAGCTTGATGTTTAAAATTAGCTGGAGCCCTAAAACCTCGAGCGT
 GGACGCTGAATGGGTTTGTAAAGTTTCGAAACAAGGAGACCAGTGTGGTCCAGTGGCTGTGATGGGAAA
 AGATTATTACAAGATTCTTGGGATCCCATCGGGGGCCAACGAGGATGAGATCAAGAAAGCCTACCGGAAG
 ATGGCCTTGAAGTACCACCCAGACAAGAATAAAGAACCCAACGCTGAGGAGAAGTTAAGGAGATTGCAG
 AGGCCTATGATGTGCTAAGTGACCCCAAGAAACGGGGCCTGTATGACCAGTATGGGGAGGAAGCCGTGAA
 GACCGGCGGTGGCACATCAGGTGGCTCCAGTGGCTCCTTTCACTACACCTTTTCATGGGGACCCCATGCC
 ACCTTTGCCTCCTTCTTTGGTGGCTCCAACCCCTTCGATATCTTCTTTGCCAGCAGCCGCTCCACTCGGC
 CCTTCAGTGGCTTTGACCAGATGACATGGATGTGGATGAAGATGAGGACCCATTTGGCGCTTTCGGCCG
 TTTTGGCTTCAATGGGCTGAGTAGGGGTCCAAGGCGAGCCCAAGAACCTGTACCTCGGGCAAGGTG
 CAGGACCCCCAGTGGTGCACGAGCTGCGGGTGTCCCTGGAGGAGATCTACCATGGCTCCACCAAGCGCA
 TGAAGATCACAAGGCGTCGCCTCAACCTGATGGGCGAACTGTGCGCACCCGAGGACAAGATCCTGCACAT
 AGTCATCAAGCGTGGCTGGAAGGAAGGCACCAAGATCACCTTCCCAAGAAGGCGCAGCCACACCTGAC
 AACATCCCTGCTGACATCGTCTTTGTGCTCAAAGACAAGCCCCATGCACACTTCCGCCGAGATGGCACCA
 CGGTGCTCTACAGTGGCTGATCAGCCTCAAGGAGGCGCTGTGTGGCTGCACTGTGAACATTCCACTAT
 CGACGGCCGAGTATCCCTTTGCCCTGCAATGATGTGCATCAAGCCAGGCACCGTGAAGAGACTCCGTGGG
 GAGGGCCTTCCCTTCCCAAGTGCCAACCTCAGCGAGGAGACCTATTGTTGAGTTCAAAGTTTCGCTTCC
 CAGACAGATTAACACCACAGACAAGACAGATCCTTAAGCAGCACCTACCCTGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225584 representing NM_001135004
 Red=Cloning site Green=Tags(s)

MGGAEAEPWGRAPGPAIGRRRAGDSCPGWRRRSRSRGRGQRLSHGPRRRPQLLTAAPPLQARGAFRSFPH
 SWGEDFLASLMFKIQLEPLKLRWLNGFVKFRNKETSAGPVAVMGKDYYKILGIPSGANEDEIKKAYRK
 MALKYHPDKNKEPNAEEKFKEIAEAYDVLSDPKKRGLYDQYGEGLKTTGGTSGGSSGSFHYTFHGDPHA
 TFASFVGGSNPFDIFFASSRSTRPFSGFDPDDMDVDEDEDPFGAFGRFGFNGLSRGPRRAPEPLYPRRKV
 QDPPVVHELRVSLLEEIYHGSTRMKITRRRLNPDGRTVREDKILHIVIKRGWKEGKTIFFPKEGDATPD
 NIPADIVFVLKDKPHAFRRDGTNVLYSALISLKEALCGCTVNIPTIDGRVIPLPCNDVIKPGTVKRLRG
 EGLPFPKVPTRQGD LIVEFKVRFDPRLTPQTRQILKQHLPCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8056_b06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135004

ORF Size: 1386 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001135004.2](#), [NP_001128476.2](#)

RefSeq ORF: 1149 bp

Locus ID: 25822

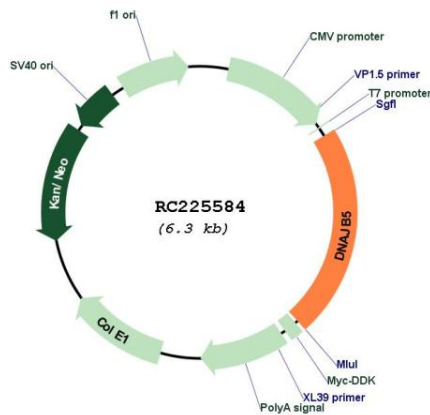
UniProt ID: [O75953](#)

Cytogenetics: 9p13.3

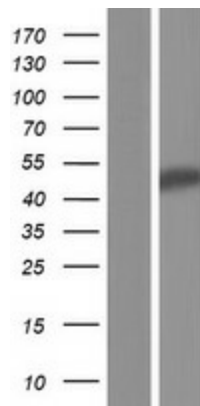
MW: 51.69 kDa

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 RC225584



Western blot validation of overexpression lysate (Cat# [LY427521]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225584 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).