

Product datasheet for **RG225671**

DNAJB5 (NM_001135005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB5 (NM_001135005) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAJB5
Synonyms:	Hsc40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225671 representing NM_001135005 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTAAGCGCACAGTCTCTCCTGCCACCCAGCAGCACCCCACTGCAGGCCGAGGAGCTTTCC
GGAGCTTCCCACACTCCTGGGAGAAGACTTCTTAGCCAGCTTGATGTTTAAAATTCAGCTGGAGCCCTT
AAAACCTCGAGCGTGGACGCTGAATGGGTTTGTAAAGTTTCGAAACAAGGAGACCAGTCTGGTCCAGTG
GCTGTGATGGGAAAAGATTATTACAAGATTCCTGGGATCCCATCGGGGCCAACGAGGATGAGATCAAGA
AAGCCTACCGAAGATGGCCTTGAAGTACCACCAGACAAGAATAAAGAACCCAACGCTGAGGAGAAGTT
TAAGGAGATTGCAGAGGCCATGATGTGCTAAGTGACCCCAAGAAACGGGGCCTGTATGACCAGTATGGG
GAGGAAGGCCTGAAGACCGCGGTGGCAGTACAGTGGCTCCAGTGGCTCCTTTACTACACCTTTCATG
GGGACCCCATGCCACCTTTGCCTCCTTCTTGGTGGCTCCAACCCCTTCGATATCTTCTTGGCAGCAG
CCGCTCCACTCGGCCCTTCAAGTGGCTTTGACCCAGATGACATGGATGTGGATGAAGATGAGGACCCATTT
GGCGCTTTCGGCCGTTTTGGCTTCAATGGGCTGAGTAGGGTCCAAGGCGAGCCCAAGAACCACTGTACC
CTCGGCACAAGGTGCAGGACCCCAAGTGGTGCACGAGCTGCGGGTGTCCCTGGAGGAGATCTACCATGG
CTCCACCAAGCGCATGAAGATCACAAAGCGTGCCTCAACCCTGATGGGGAACGTGCGCACCGAGGAC
AAGATCCTGCACATAGTCATCAAGCGTGGCTGGAAGGAAGCAAGATCACCTCCCCAAAGAAGGCG
AGGCCACACTGACAACATCCCTGCTGACATCGTCTTTGTGCTCAAAGACAAGCCCATGCACACTTCCG
CCGAGATGGCACCAACGTGCTCTACAGTCCCTGATCAGCCTCAAGGAGCGCTGTGTGGCTGCACTGTG
AACATTCCACTATCGACGGCCGAGTATCCCTTTGCCCTGCAATGATGTCATCAAGCCAGGCACCGTGA
AGAGACTCCGTGGGAGGGCCTTCCCTTCCCCAAAGTGCCAACTCAGCGAGGAGACCTCATTGTTGAGTT
CAAAGTTCGTTCCAGACAGATTAACACCACAGACAAGACAGATCCTTAAGCAGCACCTACCCTGTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225671 representing NM_001135005
 Red=Cloning site Green=Tags(s)

MFKRTLSCPPPAAPPLQARGAFRSFPHSWGEDFLASLMFKIQLEPLKLRRAWTLNGFVKFRNKETSAGPV
 AVMGKDYKILGIPSGANEDEIKKAYRKMALKYHPDKNKEPNAEEKFKEIAEAYDVLSDPKKRGLYDQYG
 EEGLKTGGGTSGGSSGSFHYTFHGDPHATFASF FGGSNPFDIFFASSRSTRPFSGFDPDDMDVDEDEDPF
 GAFGRFGFNGLSRGPARRAPEPL YPRRKVQDPPVVHELRLVSLLEEIYHGSTKRMKITRRRLNPDGRTVRTED
 KILHIVIKRGWKEGKTI TFPKEGDATPDNIPADIVFVLKDKPHAHFRRDGTNVL YSALISLKEALCGCTV
 NIPTIDGRVIPLPCNDVIKPGTVKRLRGEGLPFPKVPTQRGDLIVEFKVRFPRDLTPQTRQILKQHLPCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135005

ORF Size: 1260 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_001135005.3](#)

RefSeq Size: 2796 bp

RefSeq ORF: 1263 bp

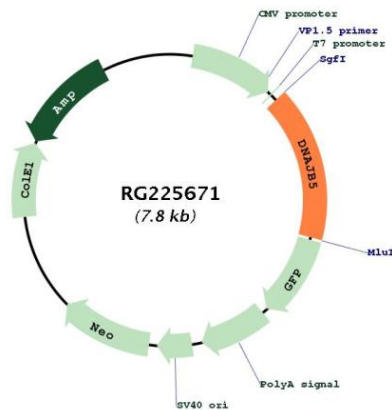
Locus ID: 25822

UniProt ID: [O75953](#)

Cytogenetics: 9p13.3

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 RG225671