

Product datasheet for RC211335

DNAJB7 (NM_145174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB7 (NM_145174) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJB7
Synonyms:	DJ5; HSC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211335 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGTGGATTACTATGAAGTTCTAGGACTGCAAAGATATGCTTCACCTGAGGACATTAAGCTTATC
ATAAAGTGGCACTTAAATGGCACCTGATAAAATCCAGAAAATAAGAAGAAGCAGAGAGAAAATTCAA
AGAAGTAGCTGAGGCATACGAGGTATTCAAATGATGAGAAACGGGACATTTATGATAAATATGGCACA
GAAGGATTAACGAGGTGGAAGTCATTTTGATGATGAATGTGAGTACGGCTTCACATCCATAAGCCAG
ATGATGTTTTAAAGAAATTTTCATGAAAGGGATCCATTTCTTTTCACTTCTTTGAAGACTCGCTTGA
GGACCTGTAAATCGTCCAGGAAGCTCCTATGGAAACAGAAACAGAGATGCAGGATACTTTTCTCCACT
GCCAGTGAATATCCAATTTTGGAGAAATTTCTTCATATGATACAGGATATACATCACAGGGTTCATTGG
GGCATGAAGGCCTTACTTCTTTCTTCCCTGGCTTTTGATAATAGTGGGATGGACAACACTACATATCTGT
TACAACCTCAGACAAAATCGTTAATGGCAGAAATATTAATACAAAGAAAATTATTGAAAGTGATCAAGAA
AGAGAAGCTGAAGATAATGGAGAGTTGACATTTTTCTTGTAATAGTGTGGCAATGAAGAGGGCTTTG
CAAAGAATGCAGCTGGAGAACACAGTCATTCAACAACATTACCAAATTCACAGCTCCAAACATGT
ATCTCAATATACTTTCTGGACAATGATGAGGGAGGTATATCTTGGGTTACCAGCAACAGAGATCCCCCT
ATTTTCTCAGCAGGAGTCAAAGAGGGTGGTAAGAGGAAAAAAGAAGCGTAAAGAGGTGCAAAAAGAAGT
CTACCAAAGGAATTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211335 protein sequence
Red=Cloning site Green=Tags(s)

MVDYYEVLGLQRYASPEDIKKAYHKVALKWHDPKNPENKEEAERKFKEVAEAYEVL SNDEKRDIYDKYGT
 EGLNGGSHFDDECEYGF TFHKPDDVFKEIFHERDPFSFHFFEDSLEDLLNRPGSSYGNNRNDAGYFFST
 ASEYPIFEKFSYDTGYTSQGLGHEGLTSFSSLAFDNSGMDNYISVTTSDKIVNGRNINTKKIIESDQE
 REAEDNGELTFFLVNSVANEEGFAKECSWRTQSFNNYSPNSHSSKHVSQYTFVDNDEGGISWVTSNRDPP
 IFSAGVKEGGKRRKKKRKEVQKKSTKRNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6370_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145174

ORF Size: 927 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_145174.2](#)

RefSeq Size: 2578 bp

RefSeq ORF: 930 bp

Locus ID: 150353

UniProt ID: [Q7Z6W7](#)

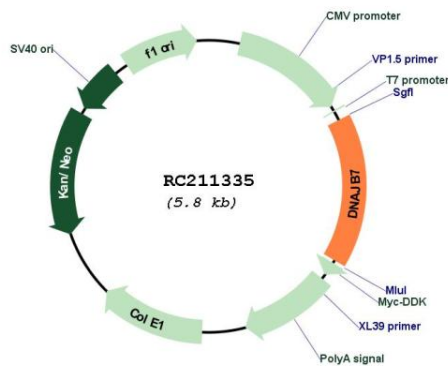
Cytogenetics: 22q13.2

Protein Families: Druggable Genome

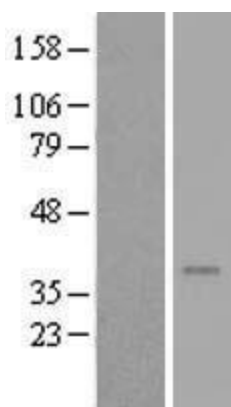
MW: 35.4 kDa

Gene Summary: The protein encoded by this intronless gene belongs to the evolutionarily conserved DNAJ/HSP40 family of proteins, which regulate molecular chaperone activity by stimulating ATPase activity. DNAJ proteins may have up to 3 distinct domains: a conserved 70-amino acid domain, usually at the N terminus; a glycine/phenylalanine (G/F)-rich region; and a cysteine-rich domain containing 4 motifs resembling a zinc finger domain.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RC211335



Western blot validation of overexpression lysate (Cat# [LY408036]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211335 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).