

## Product datasheet for RC203743

### DNAJB4 (NM\_007034) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB4 (NM_007034) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJB4
Synonyms:	DjB4; DNAJW; HLJ1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC203743 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAAAGACTATTATTGCATTTTGGGAATTGAGAAAGGAGCTTCAGATGAAGATATTAAGGCTT  
ACCGAAAAAAGCCCTCAAATTTTCATCCGACAAGAACAATCTCCTCAGGCAGAGGAAAAATTTAAAGA  
GGTCGCAGAAGCTTATGAAGATTGAGTGATCCTAAAAAGAGAGAAATATATGATCAGTTTGGGGAGGAA  
GGGTTGAAAGGAGGAGCAGGAGGTACTGATGGACAAGGAGGTACCTTCCGGTACACCTTTTCATGGCGATC  
CTCATGCTACATTTGCTGCATTTTTCGGAGGGTCCAACCCCTTTGAAATTTTCTTTGGAAGACGAATGGG  
TGGTGGTAGAGATTCTGAAGAAATGAAATAGATGGTGATCCTTTTAGTGCCTTTGGTTTCAGCATGAAT  
GGATATCCAAGAGACAGGAATCTGTGGGGCCATCCCCTCAAACAAGATCCTCCAGTTATTCATGAAC  
TTAGAGTATCACTTGAAGAGATATATAGTGTTGTACCAACGGATGAAGATTTCTGAAAAAGGCTAAA  
CGCTGATGGAAGGAGTTACAGATCTGAGGACAAAATCTTACCATTGAGATTAAGGAGGTTGAAAGAA  
GGCACAAAATTAATTTTCCAAGAGAAGGAGATGAAACACCAAAATAGTATTCCAGCAGACATTGTTTTTA  
TCATTAAGACAAAGATCATCAAAAATTTAAAAGGGATGGATCAAAATATAATTTACTGCTAAAATTAG  
TTTACGAGAGGCATTGTGTGGCTGCTCAATTAATGTACCAACACTGGATGGAAGAAACATACCTATGTCA  
GTAATGATATTGTGAAACCCGGAATGAGGAGAAGAAATTATTGGATATGGCTGCCATTTCCAAAAAATC  
CTGACCAACGTGGTGACCTTCTAATAGAATTTGAGGTGTCCTTCCAGATACTATATCTTCTTCATCCAA  
AGAAGTACTTAGGAAACATCTTCTGCCTCA

**ACGGT**ACGGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203743 protein sequence  
 Red=Cloning site Green=Tags(s)

MGKDYYCILGIEKGASDEDIKKAYRKQALKFHPDKNKSPQAEKFKVEAEAYEVLSDPKKREIYDQFGEE  
 GLKGGAGGTDGQGGTFRYTFHGDPHATFAAFFGGSNPFEIFFGRRMGGGRDSEEMEDGDPFSAFGFSMN  
 GYPRDRNSVGPSRLKQDPPVIHELRLVSLLEIYSGCTKRMKISRKRLNADGRSRSYSEDKILTIEIKKGWKE  
 GTKITFPREGDETPNSIPADIVFIKDKDHPKFKRDGSNIYTAKISLREALCGCSINVPTLDGRNIPMS  
 VNDIVKPGMRRRIIGYGLPFPKNPDQRGDLLIEFEVSFPDTISSSSKEVLRKHLPAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

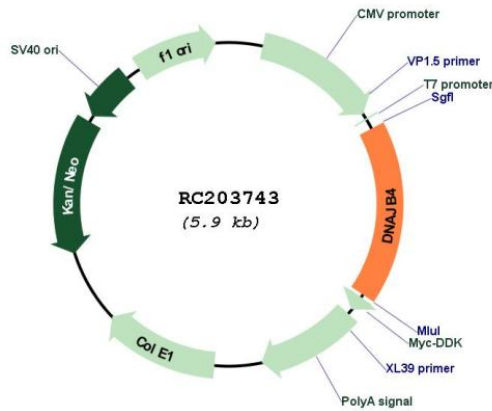
Chromatograms: [https://cdn.origene.com/chromatograms/mk6013\\_b08.zip](https://cdn.origene.com/chromatograms/mk6013_b08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



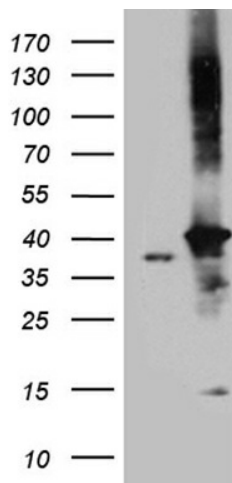
Plasmid Map:



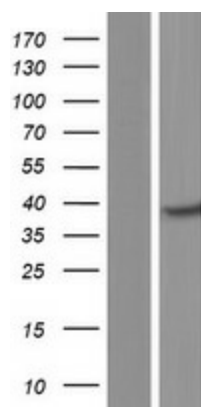
ACCN: NM\_007034

ORF Size:	1011 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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_007034.5</a>
RefSeq Size:	2250 bp
RefSeq ORF:	1014 bp
Locus ID:	11080
UniProt ID:	<a href="#">Q9UDY4</a>
Domains:	DnaJ, DnaJ_C
MW:	37.8 kDa
Gene Summary:	The protein encoded by this gene is a molecular chaperone, tumor suppressor, and member of the heat shock protein-40 family. The encoded protein binds the cell adhesion protein E-cadherin and targets it to the plasma membrane. This protein also binds incorrectly folded E-cadherin and targets it for endoplasmic reticulum-associated degradation. This gene is a strong tumor suppressor for colorectal carcinoma, and downregulation of it may serve as a good biomarker for predicting patient outcomes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

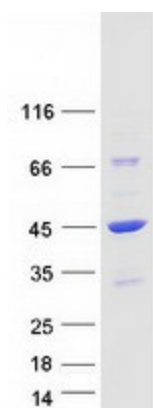
### Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DNAJB4 (Cat# RC203743, 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-DNAJB4 antibody (Cat# [TA812139]). Positive lysates [LY402104] (100ug) and [LC402104] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402104]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203743 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNAJB4 protein (Cat# [TP303743]). The protein was produced from HEK293T cells transfected with DNAJB4 cDNA clone (Cat# RC203743) using MegaTran 2.0 (Cat# [TT210002]).