

## Product datasheet for MR219416

### Dnajib6 (NM\_001037940) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Dnajib6 (NM_001037940) Mouse Tagged ORF Clone                                  |
| Tag:                      | Myc-DDK  |
| Symbol:                   | Dnajib6  |
| Synonyms:                 | HSJ-2; mDj4; Mrj   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| ORF Nucleotide Sequence:  | >MR219416 representing NM_001037940<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGATTACTATGAAGTGCTGGCGTGCAGAGACATGCCTCACCTGAGGACATTA AAAAGGCGTATC  
GAAACAGGCACCTAAATGGCACCCGACAAAAATCCTGAAAATAAAGAAGAAGCAGAGCGGAAGTTCAA  
ACAAGTAGCTGAGGCATATGAAGTGTATCGGATGCTAAAAGCGGGACATCTACGACAAATATGGCAA  
GAAGGATTAATGGTGGTGGAGGAGGAGGTGGAATTCATTTTGACAGTCCATTTGAGTTGGCTTCACAT  
TCCGGAACCCAGATGATGTCTTCAGGGAATTTTTGGTGAAGGGACCCATTTTCATTTGACTTCTTTGA  
AGACCCATTTGATGACTTTTTGGAAACCGAAGGGTCCCGAGGAAATAGAAGCCGAGGTGCCGGCTCA  
TTTTTCTACCTTCAGTGGATTCTCTTTTTGGAAGTGGATTTCTGCTTTTGATACAGGCTTCACTC  
CATTTGGGTCACTAGGTCATGGGGTCTCACTTCATTTCTTCAACGTCAATTTGGCGCAGTGGAATGGG  
CAACTTCAATCAATATCAACTTCAACTAAGATAGTTAATGGCAAAAAATCACGACAAAGAGGATTGTG  
GAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGGAGTAAAGTCCTTGACAATAAATGGTGTGG  
CCGACGAGAACGCCCTTGAGAAGAATGCCAGCGGAGAGGCCAACCCACACCAGCTCTGGCCCTGGCC  
GGCCCCAGCACAGTCCGGTCCCCTCCAGGCCCGGCCCTGGCCCCAACTCCAGCCCCAACTCCAGCC  
CCAACTCCAGCCCCAGCTCCAGCCAGACTCCGGCCCCCTCTGTGACACCCGCCACAGAAGCCACCCA  
GGCCTGCCCAACGGCCAACTTGGGTCTAAAAGCAACTGGGAAGATGACGAGCAGGACAGGCAGCGGGT  
TCCTGGCAACTGGGATGCCCTATGACCTCAGCAGGGCTCAAAGAAGGTGCAAGAGGAAGAAGCAGAAG  
CAGAAAGAGGACTTGAAGAAGAAGAAGTCGACCAAGGGAACCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR219416 representing NM\_001037940  
Red=Cloning site Green=Tags(s)

MVDYYEVLGVQRHASPEDIKKAYRKQALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKRDIDYKYGK  
 EGLNGGGGGGGIHFDSPFEFGFTFRNPDDVREFFGGDRPFSDFDFEDPFDDFFGNRRGPRGNRSRGAGS  
 FFSTFSGFPSFGSGPFAFDTGFTPFGLGHGGLTSFSSTSFGGSGMGNFKSISTSTKIVNGKKITTKRIV  
 ENGQERVEEEDGQLKSLTINGVADENALAEECQRRGQPTPALAPGPAPAPVRVPSQARPLAPTPAPTPA  
 PTPAPAPAQTPAPSVSTRPQKPPRPAPTAKLGSKSNWEDDEQDRQVRVPGNWDAPMTSAGLKEGGKRRKQK  
 QKEDLKKKSTKGNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001037940

**ORF Size:** 1095 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\\_001037940.4](#), [NP\\_001033029.1](#)

**RefSeq Size:** 2708 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 23950

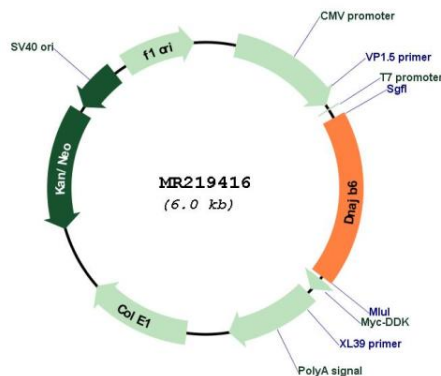
**UniProt ID:** [O54946](#)

**Cytogenetics:** 5 B1

**MW:** 40.3 kDa

**Gene Summary:** Plays an indispensable role in the organization of KRT8/KRT18 filaments. Acts as an endogenous molecular chaperone for neuronal proteins including huntingtin. Suppresses aggregation and toxicity of polyglutamine-containing, aggregation-prone proteins (By similarity). Has a stimulatory effect on the ATPase activity of HSP70 in a dose-dependent and time-dependent manner and hence acts as a co-chaperone of HSP70. Also reduces cellular toxicity and caspase-3 activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR219416