

## Product datasheet for **MG219416**

### **Dnajb6 (NM\_001037940) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dnajb6 (NM\_001037940) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dnajb6  
**Synonyms:** HSJ-2; mDj4; Mrj  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219416 representing NM\_001037940  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGGATTACTATGAAGTGCTGGCGTGCAGAGACATGCCTCACCTGAGGACATTA AAAAGGCGTATC  
 GAAAACAGGCACCTAAATGGCACCCGGACAAAAATCCTGAAAATAAAGAAGAAGCAGAGCGGAAGTTCAA  
 ACAAGTAGCTGAGGCATATGAAGTGTTATCGGATGCTAAAAGCGGGACATCTACGACAAATATGGCAA  
 GAAGGATTAATGGTGGTGGAGGAGGAGGTGGAATTCATTTTGACAGTCCATTTGAGTTTGGCTTCACAT  
 TCCGGAACCCAGATGATGTCTTCAGGGAATTTTTGGTGAAGGGACCCATTTTCATTTGACTTCTTTGA  
 AGACCCATTTGATGACTTTTTGGAAACCGAAGGGTCCCGAGGAAATAGAAGCCGAGGTGCCGGCTCA  
 TTTTTCTACCTTCAGTGGATTTCTTCTTTGGAAAGTGGATTTCTGCTTTTGATACAGGCTTCACTC  
 CATTTGGGTCACTAGGTCATGGGGTCTCACTTCATTTCTTCAACGTCAATTTGGCGCAGTGGAATGGG  
 CAACTTCAATCAATATCAACTCAACTAAGATAGTTAATGGCAAAAAATCACGACAAAGAGGATTGTG  
 GAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGGCAGTTAAAGTCCTTGACAATAAATGGTGTG  
 CCGACGAGAACGCCCTTGAGAAGAATGCCAGCGGAGAGGCCAACCCACACCAGCTCTGGCCCTGGCCC  
 GGCCCCAGCACCAGTCCGGTCCCCTCCAGGCCCGGCCCTGGCCCCAACTCCAGCCCCAACTCCAGCC  
 CCAACTCCAGCCCCAGCTCCAGCCAGACTCCGGCCCCCTCTGTGACACCCGCCACAGAAGCCACCCA  
 GGCTGCCCAACGGCCAACTTGGGTCTAAAAGCAACTGGGAAGATGACGAGCAGGACAGGCAGCGGGT  
 TCCTGGCAACTGGGATGCCCTATGACCTCAGCAGGGCTCAAAGAAGGTGGAAGAGGAAGAAGCAGAAG  
 CAGAAAGAGGACTTGAAGAAGAAGAAGTCGACCAAGGGAACCAT

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219416 representing NM\_001037940  
Red=Cloning site Green=Tags(s)

```
MVDYYEVLGVQRHASPEDIKKAYRKQALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKRDIYDKYGK
EGLNGGGGGGGIHFDSPFEFGFTFRNPDDVFRFFGGDRPFSDFDFEDPFDDFFGNRRGPRGNRSRGAGS
FFSTFSGFPSFGSGFPADFDTGFTPFGLGHGGLTSFSSTSFGGSGMGNFKSISTSTKIVNGKKITTKRIV
ENGQERVEEEDGQLKSLTINGVADENALAEECQRRGQPTPALAPGPAPAPVVRVPSQARPLAPTPAPTPA
PTPAPAPAQTPAPSVSTRPQKPPRPAPTAKLGSKSNWEDDEQDRQVRVPGNWDAPMTSAGLKEGGKRRKQK
QKEDLKKKSTKGNH
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

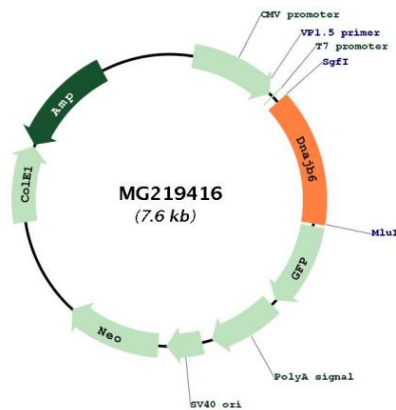
**Locus ID:** 23950

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

**Cytogenetics:** 5 B1

**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 MG219416