

## Product datasheet for **MR222469**

### **Dnajb2 (NM\_020266) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dnajb2 (NM\_020266) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dnajb2  
**Synonyms:** 2700059H22Rik; Dnajb10; Hsj1; mDj8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222469 representing NM\_020266  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCATCCTACTACGAGATTCTAGACGTACCGCGGAGTGCGTCCCCTGATGACATCAAGAAGCGGTACC  
GAAAGAAGGCTCTGCAGTGGCACCCAGACAAGAACCCGGATAATAAAGAATTTGCTGAAAAAATTTAA  
GGAGGTGGCAGAGGCCTATGAAGTACTATCTGACAGAAGTGGTCTTCTCGATCGGAAACTGGTGGTGCG  
GGGCTGGCTTACATTCACCTCCGTAGCCCCGAGGAAGTCTCCGGGAGTTCTTCGGGAGCGGAGACC  
CTTTTTCAGAGCTCTTTGATGACTTGGGTGCTTCTCGGAGCTTCAGAACCAGGGTCCCCGACTCACGGG  
CCTTTCTTCACTTTCTTCTTCTTCTTCTGCAACTCCGATTTCTCCTCCTCATCTTTCTCCTTACGC  
CCGGGGCTGGTCTTCCGCTCCGTTTCTACGTCACCACTTTGTCCAAGGCCCGCATCACACAC  
GCAGAATCATGGAGAACGGGCAGGAGCGGGTAGAAGTGAAGAGGATGGACAACCTGAAGTCAGTGTCAAT  
CAATGGTGTCCCAGATGACCTGGCACTAGGCTTGGAGCTGAGCCGTCGTGAGCAGCAACCTTCAGTTGCC  
CCTGGGCTGGGGTATGCAGGTCGGCCGACCTCTCTCTCGTCCCCCTGACCATGATCTTTCTGAGG  
ATGAGGACCTGCAGCTCGCCATGGCTTACAGCTGTGACAGATGGAGGCGGCTGGCAGAAGCCAGCAGA  
TGTGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222469 representing NM\_020266  
Red=Cloning site Green=Tags(s)

MASYEILDVPRSASPDDIKKAYRKKALQWHPDKNPDNKEFAEKKFKEVAEAYEVLSDRSGPSRSETGGA  
 GPGFTTFRSPEEVFREFFGSGDPFSELFDLGVFSELQNGPRLTGPFFTFSSSFPANSDFSSSSFSFS  
 PGAGAFRSVSTSTTFVQRRITRRIMENGOERVEVEEDGQLKVSINGVPPDDLALGLELSRREQQPSVA  
 PGLGVMQVRPTSLSRPPDHDLSEDEDLQLAMAYSLSEMEAGQKPADVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_020266

**ORF Size:** 777 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\\_020266.2](#), [NP\\_064662.2](#)

**RefSeq Size:** 1881 bp

**RefSeq ORF:** 780 bp

**Locus ID:** 56812

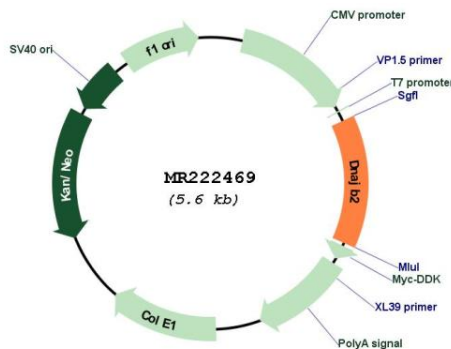
**UniProt ID:** [Q9QYI5](#)

**Cytogenetics:** 1 C4

**MW:** 29 kDa

**Gene Summary:** Functions as a co-chaperone, regulating the substrate binding and activating the ATPase activity of chaperones of the HSP70/heat shock protein 70 family. In parallel, also contributes to the ubiquitin-dependent proteasomal degradation of misfolded proteins. Thereby, may regulate the aggregation and promote the functional recovery of misfolded proteins like HTT, MC4R, PRKN, RHO and SOD1 and be crucial for many biological processes. Isoform 1 which is localized to the endoplasmic reticulum membranes may specifically function in ER-associated protein degradation of misfolded proteins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222469