

Product datasheet for **MG222469**

Dnajb2 (NM_020266) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dnajb2 (NM_020266) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dnajb2
Synonyms: 2700059H22Rik; Dnajb10; Hsj1; mDj8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222469 representing NM_020266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCATCCTACTACGAGATTCTAGACGTACCGCGGAGTGCCTCCCTGATGACATCAAGAAGCGGTACC
 GAAAGAAGGCTCTGCAGTGGCACCCAGACAAGAACCCGGATAATAAAGAATTTGCTGAAAAAATTTAA
 GGAGGTGGCAGAGGCCTATGAAGTACTATCTGACAGAAGTGGTCCTTCTCGATCGGAAACTGGTGGTGCG
 GGGCCTGGCTTACATTCACCTCCGTAGCCCCGAGGAAGTCTCCGGGAGTTCTTCGGGAGCGGAGACC
 CTTTTTTCAGAGCTCTTTGATGACTTGGGTGCTTCTCGGAGCTTCTCAGAACAGGGTCCCCGACTCACGGG
 CCCTTCTTCACTTTCTTCTTCTTCTTCTGCAACTCCGATTTCTCCTCCTCATCTTTCTCCTTCAGC
 CCGGGGGCTGGTCTTTCCGCTCCGTTTCTACGTCACACCACCTTTGTCCAAGGCCCGCATCACACAC
 GCAGAATCATGGAGAACGGGCAGGAGCGGGTAGAAGTGGAAAGAGGATGGACAACCTGAAGTCAGTGTCAAT
 CAATGGTGTCCCAGATGACCTGGCACTAGGCTTGGAGCTGAGCCGTCGTGAGCAGCAACCTTCAGTTGCC
 CCTGGGCTGGGGTATGCAGTCCGGCCGACCTCTCTCTCGTCCCCCTGACCATGATCTTTCTGAGG
 ATGAGGACCTGCAGCTCGCCATGGCTTACAGCTGTGACAGATGGAGGCGGCTGGCAGAAGCCAGCAGA
 TGTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222469 representing NM_020266
 Red=Cloning site Green=Tags(s)

MASYEILDVPRSASPDDIKKAYRKKALQWHPDKNPDNKEFAEKKFKEVAEAYEVLSDRSGPSRSETGGA
 GPGFTTFRSPEEVFREFFGSGDPFSELFDDLGVFSELQNGPRLTGPFFTFSSSFANSDFSSSSFSFS
 PGAGAFRSVSTSTTFVQRRITRRIMENQERVEVEEDGQLKVSINGVPDDLALGLELSRREQQPSVA
 PGLGVMQVRPTSLSRPPDHDLSEDEDLQLAMAYSLSEMEAGQKPADVF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

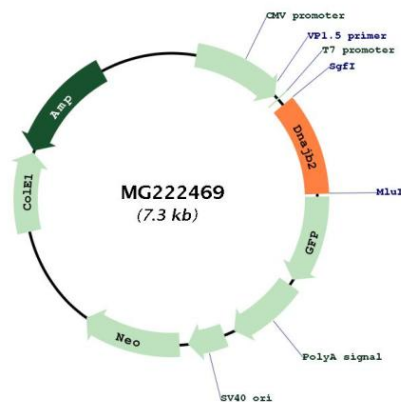
Locus ID: 56812

UniProt ID: [Q9QYI5](#)

Cytogenetics: 1 C4

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 MG222469