

Product datasheet for MR222471

Dnajb2 (NM_178055) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dnajb2 (NM_178055) 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: >MR222471 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCATCCTACTACGAGATTCTAGACGTACCGCGGAGTGCGTTCCTGATGACATCAAGAAGCGTACC
 GAAAGAAGGCTCTGCAGTGGCACCCAGACAAGAACCCGGATAATAAAGAATTTGCTGAAAAAAAAATTTAA
 GGAGGTGGCAGAGGCCTATGAAGTACTATCTGACAAGCACAAACGGGAGATCTATGACCGCTATGGCCGG
 GAAGGGCTGACCGGGCAGGAAGTGGTCTTCTCGATCGGAAACTGGTGGTGCGGGGCTGGCTTCACAT
 TCACCTTCCGTAGCCCGAGGAAGTCTTCCGGGAGTTCCTCGGGAGCGGAGACCCTTTTTCAGAGCTCTT
 TGATGACTTGGGTGTCTTCTCGGAGCTTCAAGAACCAGGGTCCCGACTCACGGGCCCTTTCTTCACTTTC
 TCTTCTTCTTCTGCCAACCTCCGATTTCTCCTCCTCATCTTTCTCCTCAGCCCGGGGCTGGTGCTT
 TCCGCTCCGTTTCTACGTCCACCACCTTTGTCCAAGGCCCGCCATCACCACACGCAGAATCATGGAGAA
 CGGGCAGGAGCGGGTAGAAGTGAAGAGGATGGACAACCTGAAGTCAGTGTCAATCAATGGTGTCCCAGAT
 GACCTGGCACTAGGCTTGGAGCTGAGCCGTCGTGAGCAGCAACCTTCAGTTGCCCTGGGCTGGGGGTCA
 TGCAGGTCGGCCGACCTCTCTCTCGTCCCCCTGACCATGATCTTTCTGAGGATGAGGACCTGCAGCT
 CGCCATGGCTTACAGCCTGTGAGAGATGGAGGCGGCTGGGCAGAAAGCCAGCAGATGTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222471 protein sequence
 Red=Cloning site Green=Tags(s)

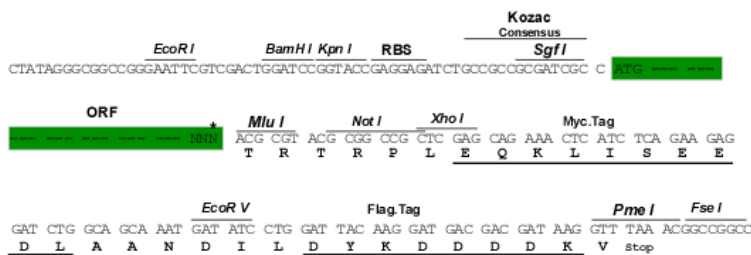
MASYEILDVPRSAFPDDIKKAYRKKALQWHPDKNPDNKEFAEKKFKEVAEAYEVLSDKHKREIYDRYGR
 EGLTGAGSGPSRSETGGAGPGFTFFRSPEEVFREFFGSGDPFSELFDDLGVFSELQNQGPRLTGPFFTF
 SSSFPANSDFSSSSFSPGAGAFRSVSTSTTFVQGRITTRRIMENGQERVEEEDGQLKSVSINGVPD
 DLALGLELSRREQQPSVAPGLGVMQVRPTSLSRPPDHDLSEDEDLQLAMAYSLSSEMAAGQKPADVF

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_178055

ORF Size: 834 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_178055.1](#), [NM_178055.2](#), [NM_178055.3](#), [NM_178055.4](#), [NP_835156.1](#)

RefSeq Size: 1935 bp

RefSeq ORF: 834 bp

Locus ID: 56812

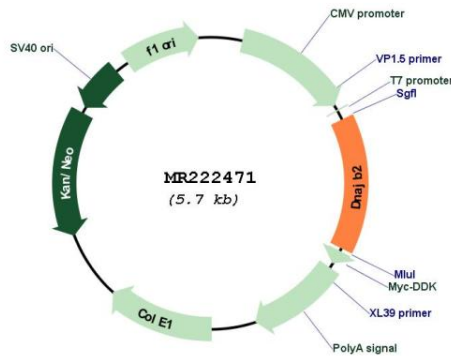
UniProt ID: [Q9QYI5](#)

Cytogenetics: 1 C4

MW: 30.7 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 MR222471