

Product datasheet for MR205083

Dnajb1 (NM_018808) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnajb1 (NM_018808) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnajb1
Synonyms:	061000711Rik; DjB1; Hdj1; Hsp; Hsp40; HSPF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205083 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCAAGGACTACTATCAGACGCTGGGCCTGGCCCGCGCGCGTCCGACGACGAGATCAAGCGAGCCT
ACCGCCGCCAGGCGCTGCGCTACCACCCGGACAAGAACAAGGAGCCCGCGCTGAGGAGAAGTTCAAGGA
GATCGCCGAGGCCTACGACGTGCTCAGCGACCCGCGCAAGCGCGAGATTTTCGACCGCTATGGAGAGGAA
GGCCTGAAGGGTGGTAGCCCCAGTGGAGGAAGCAGTGGTGGTGTAAATGGTACCTTTTCAGCTACACAT
TCCACGGAGACCCCATGCCATGTTTGCTGAGTCTTCGGTGGCAGAAACCCCTTTGATACCTTTTTTGG
GCAGCGCAACGGGAAGAAGGCATGGACATTGATGACACATTCTCTAGCTTTCCAATGGGTATGGGTGGC
TTCACCAACATGAACTTTGGACGTTCCCGCCCTTCTCAAGAGCCACCCGGAAGAAGCAAGATCCTCCAG
TCACCCATGACCTTCGGGTCTCCCTTGAAGAGATCTACAGCGGCTGTACCAAGAAGATGAAAATCTCCCA
CAAGCGGCTGAACCCTGATGAAAGAGCATTGAAATGAAGATAAGATCCTGACCATCGAAGTGAAGAGG
GGCTGAAAGAAGGGACCAAAATCACCTTTCCAAGGAAGGGGACCAGACCTCGAACAACATTCCAGCAG
ACATCGTCTTTGTTTTAAAGGACAAGCCACACAATATCTCAAGAGAGATGGTTCTGATGTCATCTATCC
AGCCAGGATTAGCCTTCGGGAGGCTCTCTGTGGTTGCACTGTGAATGTCCCTACTCTGGACGGCAGGACC
ATCCCTGTTGTATTCAAAGATGTCATCAGGCCTGGTATGCGCGGAAAGTCCCTGGAGAAGGCCTCCCTC
TCCCAAAACACCTGAGAAACGTGGAGACCTTGTATCGAGTTTGAAGTGATCTTCCCGAAAGGATTCC
CGTCTCATCCAGAACCATCCTGGAGCAGGTTCTCCATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR205083 protein sequence
Red=Cloning site Green=Tags(s)

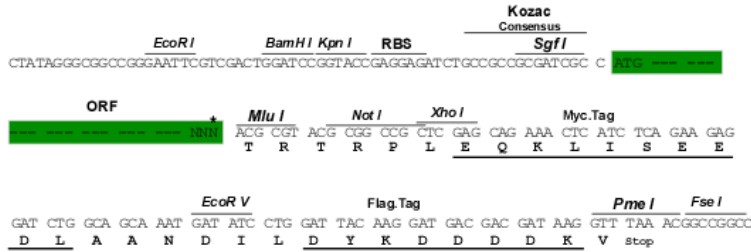
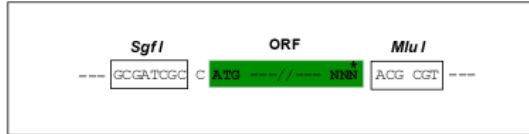
MGKDYQTLGLARGASDDEIKRAYRRQALRYHPDKNKEPGAEEKFKEIAEAYDVLSDPRKREIFDRYGEE
 GLKGGSPSGGSSGGANGTSFSYTFHGDPHAMFAEFFGGRNPFDTFFGQRNGEEMDIDDTFSSFPMGMGG
 FTNMNFRSRPSQEPTRKKQDPPVTHDLRVSLEEIYSGCTKKMKISHKRLNPDGKSI RNEDKILTIEVKR
 GWKEGTKITFPKEGDQTSNNIPADIVFVLKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRT
 IPVVFQDVIRPGMRRKVPGEGLPLPKTPEKRGDLVIEFEVIFPERIPVSSRTILEQVLPI

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_018808

ORF Size: 1023 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_018808.3](#)

RefSeq Size: 2284 bp

RefSeq ORF: 1023 bp

Locus ID: 81489

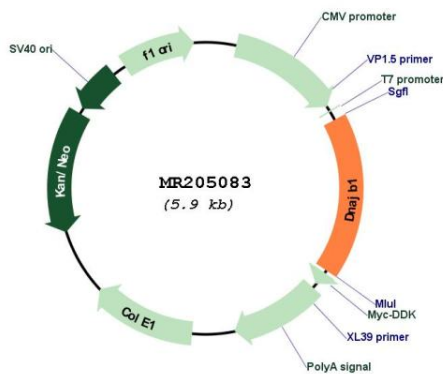
UniProt ID: [Q9QYJ3](#)

Cytogenetics: 8 C2

MW: 38.2 kDa

Gene Summary: This gene encodes a member of the DnaJ or Hsp40 (heat shock protein 40 kD) family of proteins. The encoded protein is a molecular chaperone that stimulates the ATPase activity of Hsp70 heat-shock proteins in order to promote protein folding and prevent misfolded protein aggregation. The encoded protein may also inhibit apoptosis. Peritoneal macrophages derived from homozygous knockout mice for this gene exhibit impaired heat tolerance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR205083