

## Product datasheet for MR227150

### Dnajb11 (NM\_001190804) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dnajb11 (NM_001190804) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnajb11
Synonyms:	1810031F23Rik; ABBP-2; AL024055; Dj9; ERdj3; ERj3p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227150 representing NM_001190804 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGAGAACCTGAGCACCTTCTGCCTGTTGCTGCTGTACCTCATCGGGACTGTGATCGCCGGC  
GAGATTTCTATAAGATCTTGGGGTGCCTCGAAGTGCCTCCATAAAGGACATTAAGGCTACAGGAA  
ACTGGCCCTGCAGCTCCACCCTGACCGAACCTGATGACCCCAAGCCAGGAGAAATCCAGGATCTA  
GGTCTGCTTATGAGTTCTGTGAGATAGTAAAAACGAAACAGTACGATACTTACGGTGAAGAAGGCT  
TAAAAGATGGCCATCAGAGCTCTCATGGGACATTTTTTACACTTCTTTGGAGACTTTGGCTTCATGTT  
TGGAGGAACCCCTCGTCAGCAGGACAGGAATATCCAAGAGGAAGTGATATCATCGTAGACTAGAAAGTC  
ACTCTGGAAGAAGTGACGACGAAATTTGTGGAAGTAGTTAGAAACAAGCCTGTGGCCAGGCAGGCTC  
CTGGCAAACGAAATGCAACTGTGCGCAAGAGATGAGAACCACACAGCTGGGACCGGACGCTTCCAAAT  
GACCCAGGAAGTGGTTTGTGACGAGTGCCTAATGTCAAATTAGTGAATGAAGAACGAACTAGAAAGTG  
GAAATAGAGCCTGGGTGCGAGATGGCATGGAGTACCCCTTATTGGAGAAGGTGAGCCGATGTGGATG  
GGGAACCCGAGACTTACGGTCCGAATCAAAGTTGTCAAGCACCAGGATATTTGAGAGGAGAGGGATGA  
CCTGTACACAAATGTGACCGTCTCACTGGTTGAGGCTCTGGTTGGCTTTGAGATGGACATAACTCACCTG  
GATGGTCAAGGTCCATATTTCCGGGACAAGATCACCAGGCCAGGCAAGCTGTGGAAAGAAAGGGG  
AAGGGCTGCCCAACTTTGATAACAATAACATCAAGGGCTCTTTGATAATCACTTTTGATGTGGACTTCC  
AAAAGAACAGCTGACAGAGGAAGCAAAAGAAGGTATCAAGCAGCTTCTCAAACAAGGCCCGTGCAGAAG  
GTGTACAACGGGCTGCAGGGCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR227150 representing NM\_001190804  
 Red=Cloning site Green=Tags(s)

MAPQNLSTFCLLLL<sup>Y</sup>LIGTVIAGRDFYKILGVPRASIKDIKKAYRKLALQLHPDRNPDDPQAQEFQDL  
 GAAEYVLS<sup>D</sup>SEKRKQYD<sup>T</sup>YGEGLKDGHQSSHGDIFSHFFGDFGFMFGGTPRQQDRNIPRGSDII<sup>V</sup>DLEV  
 TLEE<sup>V</sup>YAGNFVEVVRNKPVARQAPGKRKCNCRQEMRTTQLGPRGFQMTQE<sup>V</sup>VV<sup>C</sup>DECPNVKLVNEERTLEV  
 EIEPGV<sup>R</sup>DM<sup>E</sup>Y<sup>P</sup>FIGEGEPHVDGEPGLRFR<sup>I</sup>KV<sup>V</sup>KHRIFERRGDDLY<sup>N</sup>VT<sup>V</sup>SL<sup>V</sup>EALVGFEMDITHL  
 DGHK<sup>V</sup>HIS<sup>R</sup>DKITRPGAKL<sup>W</sup>KKGEGLPNFDNNIKGSLIITFDVDFPKEQLTEEAK<sup>E</sup>G<sup>I</sup>KQL<sup>L</sup>LK<sup>Q</sup>GPV<sup>Q</sup>K  
 VY<sup>N</sup>GL<sup>Q</sup>GY

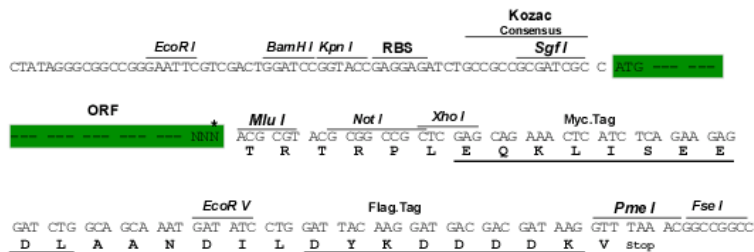
TRTRPLE<sup>Q</sup>KLISEEDLAANDILDYKDDDD<sup>K</sup>V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001190804

**ORF Size:** 1074 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\\_001190804.1](#), [NP\\_001177733.1](#)

**RefSeq Size:** 2004 bp

**RefSeq ORF:** 1077 bp

**Locus ID:** 67838

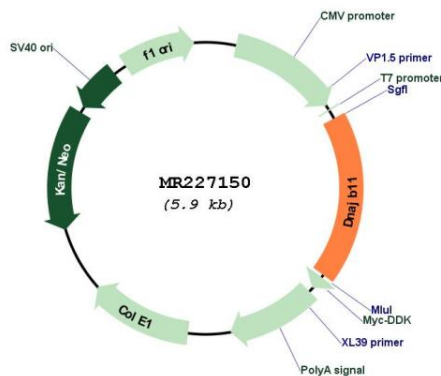
**UniProt ID:** [Q99KV1](#)

**Cytogenetics:** 16 B1

**MW:** 40.6 kDa

**Gene Summary:** As a co-chaperone for HSPA5 it is required for proper folding, trafficking or degradation of proteins. Binds directly to both unfolded proteins that are substrates for ERAD and nascent unfolded peptide chains, but dissociates from the HSPA5-unfolded protein complex before folding is completed. May help recruiting HSPA5 and other chaperones to the substrate. Stimulates HSPA5 ATPase activity. It is necessary for maturation and correct trafficking of PKD1.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR227150