

## Product datasheet for **MC217248**

### **Dnajc3 (NM\_008929) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnajc3 (NM_008929) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnajc3
Synonyms:	AA408985; AU067833; Dnajc3a; Dnajc3b; mp58; p58; p58IPK; Prkri
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217248 representing NM\_008929  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGCCCCGGCTCGGTGGCAGCCGGCTGGGCGCGGTGTTCCCGTTCCTGCTGGTCTGGTGACC  
 TGCAGTACGAAGGCGCTGAGTGTGGAGTAAATGCGGATGTGGAGAAGCATCTTGAATTGGGAAGAAATT  
 ACTCGCAGCCGGACAGCTAGCCGACGCCTTATCACAGTTTCACGCTGCAGTTGATGGTGACCCCGATAAC  
 TATATCGCATACTATAGGAGAGCTACCGTCTTCTTAGCCATGGGAAAATCCAAAGCAGCGCTGCCCGACC  
 TCACCAAAGTGATTGCGCTGAAGATGGACTTTACTGCCGCAAGACTACAGAGAGGTCACCTACTGCTCAA  
 ACAAGGGAAGCTTGACGAAGCAGAAGACGATTTCAAGAAAGTGCTCAAATCTAACCCAGTGAGCAGGAG  
 GAGAAGGAAGCCGAGTCTCAGCTTGTAAAAGCTGACGAGATGCAGCGGCTGCGCTCCAAGCGCTCGACG  
 CCTTTGACGGTGCCGATTACACTGCTGCTATAACCTTCCTTGATAAGATTTTAGAGGTTTGTGTTGGGA  
 TGCAGAAGTGCCTGAAGTGCAGCAGAATGCTTCATAAAGGAAGGAGAGCCAGGAAAGCCATCAGCGAC  
 TTAAGGCTGCTCAAAGCTGAAGAGTGACAACACAGAGGCCCTTTACAAAATCAGCACACTCTACTACC  
 AGCTAGGAGACCATGAGCTGTCTCTCAGTGAAGTTCGTGAATGTCTGAAACTTGACCAGGATCACAGCG  
 GTGTTTTGCACACTATAAGCAAGTGAAGAACTTAAACAAGCTGATTGAGTCAGCTGAAGAGCTGATCCGA  
 GATGGCAGATACACAGATGCAACCAGCAAATATGAATCAGTCATGAAAACAGAGCCAGTGTGCTGAGT  
 ACACAGTGCCTCGAAGGAGAGGATCTGCCACTGCTTCTTAAGGATGAGAAGCCCGTGGAAAGCCATTAG  
 GATATGTTCTGAAGTTTACAGATGGAGCCCGACAATGTGAATGCTCTGAAAGACCGAGCCGAGGCGCTAC  
 TTAATAGAGGAAATGTACGATGAAGCCATTGAGGATTATGAAGCTGCTCAGGAGCACAATGAAAATGACC  
 AGCAGATTCGGGAAGGCTTAGAGAAAGCCAGCGTTACTGAAGCAGTCACAGAAAAGGATTATTATAA  
 AATCTTGGGAGTAAAAAGAAATGCCAAAAACAAGAAATCATTAAGCATACCGAAAGTTAGCACTGCAG  
 TGGCATCCAGATAATTTCCAGAATGAAGAAGAAAAAGAAAAAGCAGAGAAAAAGTTTCATTGACATAGCAG  
 CTGCTAAAGAAGTCTCTCAGACCCAGAAATGAGAAAAGAGTTTGTGATGATGGAGAAGATCTCTTGATGC  
 AGAGAGTCAACAAGGAGGTGGTGGCAACCCCTTCCACAGAAGTTGGAAGTTCATGGCAAGGTTTAAACCC  
 TTCAGCTCAGGCGGACCGTTCAGATTTAAGTTCACCTTCAAT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_008929
- Insert Size:** 1515 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_008929.3](#), [NP\\_032955.2](#)

**RefSeq Size:** 5190 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 100037258

**UniProt ID:** [Q91YW3](#)

**Cytogenetics:** 14 E4

**Gene Summary:** Involved in the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Acts as a negative regulator of the EIF2AK4/GCN2 kinase activity by preventing the phosphorylation of eIF-2-alpha at 'Ser-52' and hence attenuating general protein synthesis under ER stress, hypothermic and amino acid starving stress conditions (PubMed:25329545). Co-chaperone of HSPA8/HSC70, it stimulates its ATPase activity. May inhibit both the autophosphorylation of EIF2AK2/PKR and the ability of EIF2AK2 to catalyze phosphorylation of the EIF2A. May inhibit EIF2AK3/PERK activity (By similarity).[UniProtKB/Swiss-Prot Function]