

Product datasheet for **MR227024**

Dnajc3 (NM_008929) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR227024 representing NM_008929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGCCCCGGCTCGGTGGCAGCCGGCTGGCGCGGTGTTCCCGTTCCTGCTGGTCTGGTGACC
 TGCAGTACGAAGCGCTGAGTGTGGAGTAAATGCGGATGTGGAGAAGCATCTTGAATTGGGAAGAAATT
 ACTCGCAGCCGGACAGCTAGCCGACGCCTTATCACAGTTTCACGCTGCAGTTGATGGTGACCCCGATAAC
 TATATCGCATACTATAGGAGAGCTACCGTCTTCTTAGCCATGGGAAAATCCAAAGCAGCGCTGCCCGACC
 TCACCAAAGTGATTGCGCTGAAGATGGACTTTACTGCCGCAAGACTACAGAGAGGTCACCTACTGCTCAA
 ACAAGGGAAGCTTGACGAAGCAGAAGACGATTTCAAGAAAGTGCTCAAATCTAACCCAGTGAGCAGGAG
 GAGAAGGAAGCCGAGTCTCAGCTTGTAAAAGCTGACGAGATGCAGCGGCTGCGCTCCAAGCGCTCGACG
 CCTTTGACGGTGGCGATTACACTGCTGCTATAACCTTCTTGATAAGATTTTAGAGGTTTGTGTTGGGA
 TGCAGAAGTGCCTGAAGTGCAGCAGAATGCTTCATAAAGGAAGGAGAGCCAGGAAAGCCATCAGCGAC
 TTAAGGCTGCTCAAAGCTGAAGAGTGACAACACAGAGGCCCTTTACAAAATCAGCACACTCTACTACC
 AGCTAGGAGACCATGAGCTGTCTCTCAGTGAAGTTCGTGAATGTCTGAACTTGACCAGGATCACAGCG
 GTGTTTTGCACACTATAAGCAAGTGAAGAACTTAACAAGCTGATTGAGTCAGCTGAAGAGCTGATCCGA
 GATGGCAGATACACAGATGCAACCAGCAAATATGAATCAGTCAAGAAAACAGAGCCAGTGTGCTGAGT
 ACACAGTGCCTCGAAGGAGAGGATCTGCCACTGCTTCTTAAGGATGAGAAGCCCGTGGAAAGCCATTAG
 GATATGTTCTGAAGTTTACAGATGGAGCCCGACAATGTGAATGCTCTGAAAGACCGAGCCGAGGCGCTAC
 TTAATAGAGGAAATGTACGATGAAGCCATTGAGGATTATGAAGCTGCTCAGGAGCACAATGAAAATGACC
 AGCAGATTCGGGAAGGCTTAGAGAAAGCCAGCGGTTACTGAAGCAGTCACAGAAAAGGAGATTATTATAA
 AATCTTGGGAGTAAAAAGAAATGCCAAAAACAAGAAATCATTAAGCATACCGAAAGTTAGCACTGCAG
 TGGCATCCAGATAATTTCCAGAATGAAGAAGAAAAAGAAAAAGCAGAGAAAAAGTTTCATTGACATAGCAG
 CTGCTAAAGAAGTCTCTCAGACCCAGAAATGAGAAAGAAGTTTGTGATGATGGAGAAGATCTCTTGTATGC
 AGAGAGTCAACAAGGAGGTGGTGGCAACCCCTTCCACAGAAGTTGGAAGTTCATGGCAAGGTTTAAACCC
 TTCAGCTCAGGCGGACCGTTCAGATTTAAGTTCACCTTCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227024 representing NM_008929
 Red=Cloning site Green=Tags(s)

MVAPGSVGSRLGAVFPFLLVLDLQYEGAECGVNADVEKHLELGKLLAAGQLADALSQFHAAVDGDNDN
 YIAYRRATVFLAMGKSKAALPDLTKVIALKMDFTAARLQRGHLLKQKGLDEAEDDFKVLKSNPSEQE
 EKEAESQLVKADEMQRRLRSQALDAFDGADYTAITFLDKILEVCVWDAELRELRAECFIKEGEPKAI
 SDLKAASKLKSNDTEAFYKISTLYYQLGDHELSEVRECLKLDQDHRKCFAHYKQVKKLNKLIESAELIR
 DGRYTDATSKYESVMKTEPSVAEYTVRSKERICHCFKDEKPVVAIRICSEVLQMEPDNVNALKDRAEAY
 LIEEMYDEAIQDYEAQEHNENDQIREGLEKAQRLLKQSQKRDYKILGVKRNAAKQEI
 IKAYRKLALQWHPDNFQNEEKKKAEEKFIDIAAAKEVLSDPENRKKFDDGEDPLDAESQGGGPNPFHRSWNSWQGFNP
 FSSGGPFRFKFHFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008929

ORF Size: 1512 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

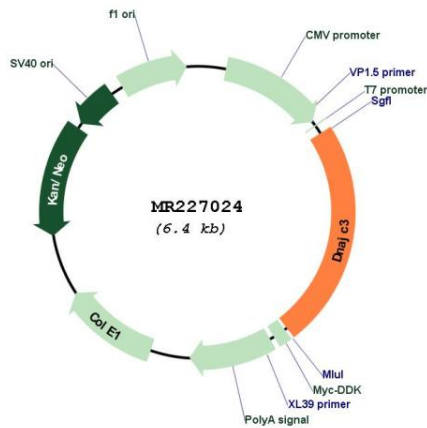
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_008929.3](#), [NP_032955.2](#)

RefSeq Size: 5190 bp
 RefSeq ORF: 1515 bp
 Locus ID: 100037258
 UniProt ID: [Q91YW3](#)
 Cytogenetics: 14 E4
 MW: 57.5 kDa

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]

Product images:



Circular map for MR227024