

## Product datasheet for MC208721

### Dnaja1 (NM\_001164671) Mouse Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Dnaja1 (NM_001164671) Mouse Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | Dnaja1   |
| Synonyms:                 | Hsj; HSJ-2; Hsj2; Nedd; Nedd7  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >MC208721 representing NM_001164671<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAAAGAAACCACTTACTACGATGTTTTGGGGTAAAACCAATGCCACCCAGGAAGAATTGAAA  
AGGCATATAGAAAATTGGCCTTGAAGTACCACCCTGATAAGAATCCAAATGAAGGGGAAAAGTTAAACA  
GATTTCTCAAGCTTATGAAGTCTTGTCTGATTCCAAAAAAGGGAATATGATAAAGGAGGGGAGCAG  
GCGATTAAGAGGGCGGAGCAGGTGGTGGTTTTGGCTCACCCATGGATATCTTTGATATGTTCTTTGGAG  
GAGGAGGAAGAATGCAAAGAGAAAGGAGAGGTAATAATGTTGTTTCATCAGCTCTCAGTGACCTTAGAAGA  
CTTATATAATGGTGCAACAAGAAAAGTGGCTCTGCAAAAGAATGTGATTTGTGACAAATGTGAAGGCCGA  
GGTGGTAAAGAAAGGAGCAGTAGAGTGCTGTCCCACTGCCGGGGACAGGTATGCAGATAAGGATTCATC  
AGATTGGACCAGGAATGGTTCAGCAAAATTCAGTCAGTGTGCATGGAGTGCCAGGGTCATGGAGAACGCAT  
CAGTCCAAAAGACAGATGTAAAAGCTGCAATGGAAGAAAAATAGTTCGAGAGAAGAAAAATTTAGAAAGTT  
CATATTGATAAAGGCATGAAAGATGGTCAGAAGATAACATTCACGGTGAAGGAGACCAAGAACCAGGAC  
TGGAGCCAGGAGATATTATCATTGTGTTAGATCAGAAGGACCATGCTGTTTTACAAGGCGAGGAGAAGA  
CCTTTTCATGTGTATGGACATACAGCTGGTTGAAGCATTGTGCGGCTTCCAAAAGCCAATATCTACTCTT  
GACAACCGAACCATAGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGGGGATATAAAATGTGTGC  
TAAATGAAGGTATGCCAATATACCGTCGGCCATATGAAAAGGGACGTCTAATCATTGAGTTAAGGTAAA  
CTTTCCTGAAAATGGCTTTCTCTCTCTGATAAACTCTTTGCTGAAAAAACTCCTTCCTGAAAGGAAG  
GAAGTAGAAGAGACTGATGAAATGGATCAGGTAGAAGTGGTGGACTTTGATCCAAATCAGGAAAAGACGGC  
GTCATTATAATGGAGAAGCGTATGAGGATGATGAACATCACCCAGAGGTGGCGTTCAGTGTGACACCTC  
TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|                               |  |
|-------------------------------|--|
| <b>Restriction Sites:</b>     | Sgfl-Mlul  |
| <b>ACCN:</b>                  | NM_001164671   |
| <b>Insert Size:</b>           | 1194 bp  |
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001164671.2</a> , <a href="#">NP_001158143.1</a>  |
| <b>RefSeq Size:</b>           | 3459 bp  |
| <b>RefSeq ORF:</b>            | 1194 bp  |
| <b>Locus ID:</b>              | 15502  |
| <b>UniProt ID:</b>            | <a href="#">P63037</a>   |
| <b>Cytogenetics:</b>          | 4 A5   |

**Gene Summary:**

The protein encoded by this gene is a member of the DnaJ family, whose members act as cochaperones of heat shock protein 70. Heat shock proteins facilitate protein folding, trafficking, prevention of aggregation, and proteolytic degradation. Members of this family are characterized by a highly conserved N-terminal J domain, a glycine/phenylalanine-rich region, four CxxCxGxG zinc finger repeats, and a C-terminal substrate-binding domain. The J domain mediates the interaction with heat shock protein 70 to recruit substrates and regulate ATP hydrolysis activity. Mice deficient for this gene display reduced levels of activation-induced deaminase, an enzyme that deaminates deoxycytidine at the immunoglobulin genes during immune responses. In addition, mice lacking this gene exhibit severe defects in spermatogenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.