

## Product datasheet for TP522980

### Dnaja1 (NM\_001164671) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse Dnaj heat shock protein family (Hsp40) member A1 (Dnaja1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR222980 representing NM\_001164671  
Red=Cloning site Green=Tags(s)

MVKETTYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGKFKQISQAYEVLADSKKRELYDKGGEQ  
AIKEGGAGGGFGSPMDIFDMFFGGGGRMQRRRGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGR  
GGKKGAVECCPNCRGTGMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEV  
HIDKGMKDGQKITFHGEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTL  
DNRTIVITSHPGQIVKHGDIKCVLNEGMPYRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERK  
EVEETDEM DQVELVDFDPNQERRRHYNGEAYEDDEHHPRGGVQCQTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK

**Predicted MW:** 44.9 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C after receiving vials.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001158143](#)

**Locus ID:** 15502

**UniProt ID:** [P63037](#), [Q5NTY0](#)



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RefSeq Size: 3459

Cytogenetics: 4 A5

RefSeq ORF: 1191

Synonyms: Hsj; HSJ-2; Hsj2; Nedd; Nedd7

**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]