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Product datasheet for MC208720

Dnaja1 (NM_001164672) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnaja1 (NM_001164672) 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:

>MC208720 representing NM_001164672
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAAAGAAACCACTTACTACGATGTTTTGGGGGTAAAACCCAATGCCACCCAGGAAGAATTGAAAA
AGGCATATAGAAAATTGGCCTTGAAGTACCACCCTGATAAGAATCCAAATGAAGGGGAAAAGTTTAAACA
GATTTCTCAAGCTTATGAAGTTCTTGCTGATTCCAAAAAAAGGGAACTATATGATAAAGGAGGGGAGCAG
GCGATTAAAGAGGGCGGAGCAGGTGGTGGTTTTGGCTCACCCATGGATATCTTTGATATGTTCTTTGGAG
GAGGAGGAAGAATGCAAAGAGAAAGGAGAGGTAAAAATGTTGTTCATCAGCTCTCAGTGACCTTAGAAGA
CTTATATAATGGTGCAACAAGAAAACTGGCTCTGCAAAAGAATGTGATTTGTGACAAATGTGAAGGCCGA
GGTGGTAAGAAAGGAGCAGTAGAGTGCTGTCCCAACTGCCGGGGGACAGGTATGCAGATAAGGATTCATC
AGATTGGACCAGGAATGGTTCAGCAAATTCAGTCAGTGTGCATGGAGTGCCAGGGTCATGGAGAACGCAT
CAGTCCAAAAGACAGATGTAAAAGCTGCAATGGAAGAAAAATAGTTCGAGAGAAGAAAATTTTAGAAGTT
CATATTGATAAAGGCATGAAAGATGGTCAGAAGATAACATTCCACGGTGAAGGAGACCAAGAACCAGGAC
TGGAGCCAGGAGATATTATCATTGTGTTAGATCAGAAGGACCATGCTGTTTTTACAAGGCGAGGAGAAGA
CCTTTTCATGTGTATGGACATACAGCTGGTTGAAGCATTGTGCGGCTTCCAAAAGCCAATATCTACTCTT
GACAACCGAACCATAGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGGGGATATAAAATGTGTGC
TAAATGAAGGTATGCCAATATACCGTCGGCCATATGAAAAGGGACGTCTAATCATTGAGTTTAAGGTAAA
CTTTCCTGAAAATGGCTTTCTCTCTCCTGATAAACTCTCTTTGCTGGAAAAACTCCTTCCTGAAAGGAAG
GAAGTAGAAGAGACTGATGAAATGGATCAGGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACGGC
GTCATTATAATGGAGAAGCGTATGAGGATGATGAACATCACCCCAGAGGTGGCGTTCAGTGTCAGACCTC
TTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001164672
Insert Size:	1194 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001164672.2, NP_001158144.1
RefSeq Size:	3316 bp
RefSeq ORF:	1194 bp
Locus ID:	15502
UniProt ID:	P63037
Cytogenetics:	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 (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.