

Product datasheet for **MR207237**

Dnaja3 (NM_001135112) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnaja3 (NM_001135112) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnaja3
Synonyms:	1200003J13Rik; 1810053A11Rik; C81173; Tid-1; Tid11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207237 representing NM_001135112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCGTGGTGTCCCCACGCTGGTTGAGGGTGGCAGTGGGGACTCCCCGGCTGCCGGCTGCAGCGG
 GGAGAGGGGTCCAGCAGCCCAGGGGGCGTAGTGGCAACATCCCTGTGTCGCAAGCTGTGCGTCTCTGC
 CTTCCGGCTTTCCATGGGCGCTCACGGCCCCGGGCGCTGCTGACATTGAGACCCGGTGTCCGCCTCACA
 GGAACAAAAAGTTTCCCTTTTGTGTACCACCTTTCCACACAAGTGTTCTTTGGCCAAAGATGATT
 ATTACCAGATCTGGGAGTGCCCCGAAATGCCAGCCAGAAAGATATCAAGAAAGCCTATTATCAGCTTGC
 CAAGAAATATCATCCAGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTTTCCAGCTGGCAGAA
 GCTTATGAGGTGTGAGCGATGAAGTGAAGAGGAAGCAGTATGACGCTTACGGCTCTGCTGGCTTTGACC
 CTGGCACCAGCAGCTCTGGCAGGGCTACTGGAGAGGAGTCCCTCTGTTGACCCCGAGGAGTTGTTGAG
 GAAGATCTTTGGGAGTTCTCATCTTCTCTTTTGGTGATTTCCAGAATGTGTTTATCAGCCTCAGGAA
 TACATCATGGAATTGACATTCATCAAGCTGCCAAGGGTGTCAACAAGAGTTCACTGTGAACATTATGG
 ATACCTGTGAGCGCTGTGACGGCAAGGGGAACGAGCCTGGAACCAAGTGACGATTGCCATTACTGTGG
 CGGCTCGGGCATGGAAACTATCAATACAGGGCCTTTTGTGATGCGTTCCACATGTCGGAGATGTGGTGGC
 CGGGGCTCCATCATCACAAATCCCTGTGTGGTCTGCAGGGGAGCAGGACAAGCCAAGCAGAAGAAGCGCG
 TGACAATTCCTGTGCCTGCAGGAGTTGAAGATGGTCAGACTGTAAGGATGCCAGTGGGAAAACGAGAAAT
 TTTTGTACATTCAGGGTGCAGAAAAGCCCTGTGTTCCGGAGGGACGGTGCAGACATCCACTCGGACCTC
 TTTATTTCAATAGCTCAAGCTATTCTTGGGGCACAGCCAAAGCCAGGGCCTGTATGAGACAATCAATG
 TGACGATCCCTGCAGGGATTGAGACAGACCAGAAAGATTGTTTACTGGAAAAGGCATCCCCGGATTAA
 TAGCTATGGCTATGGTGACCACTACATTCACATCAAGATCAGAGTTCCAAGAGGCTGAGCAGTAGGCAG
 CAGAACCTGATCCTGAGCTATGCCGAGGATGAGACTGACGTGGAGGGGACGGTTAATGGAGTCACCCACA
 CAAGCACTGGAAGCGGTCAACTGGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207237 representing NM_001135112
 Red=Cloning site Green=Tags(s)

MAAWCSPRWLRVAVGTPRLPAAAGRGVQQPQGGVVATSLCRKLCVSAFGLSMGAHGPRALLTLRPGVRLT
 GTKSFPPVCTTSFHTSASLAKDDYYQILGVPRNASQKDIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAE
 AYEVLSDVEVKKRQYDAYGSAGFDPGTSSSGQGYWRGGPSVDPEELFRKIFGEFSSSPFGDFQNVFDQPQE
 YIMELTFNQAAKGVNKEFTVNIIMDTCERCDCGKNEPGTKVQHCHYCGSGMETINTGPFVMRSTCRRCGG
 RGSIIITNPCVVCRGAGQAKQKRVITIPVAGVEDGQTVRMPVKGREIFVTFRVQKSPVFRRDGADIHSDL
 FISIAQAILGGTAKAQGLYETINVTIPAGIQTDQKIRLTGKGIPIRINSYGYGDHYIHIKIRVPKRLSSRQ
 QNLILSYAEDETVEGTVNGVTHSTGKRSTGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135112

ORF Size: 1359 bp

OTI Disclaimer: 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_001135112.1](#), [NP_001128584.1](#)

RefSeq Size: 2549 bp

RefSeq ORF: 1362 bp

Locus ID: 83945

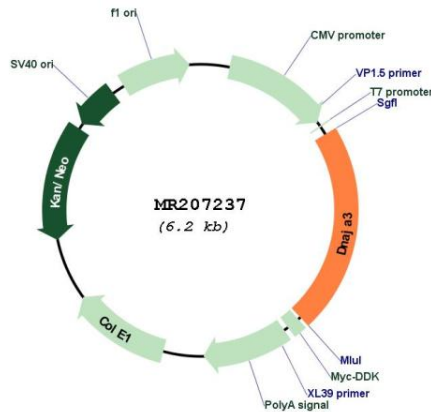
UniProt ID: [Q99M87](#)

Cytogenetics: 16 2.46 cM

MW: 49.9 kDa

Gene Summary: Modulates apoptotic signal transduction or effector structures within the mitochondrial matrix. Affect cytochrome C release from the mitochondria and caspase 3 activation, but not caspase 8 activation. Isoform 1 increases apoptosis triggered by both TNF and the DNA-damaging agent mytomycin C; in sharp contrast, isoform 2 suppresses apoptosis. Can modulate IFN-gamma-mediated transcriptional activity (By similarity). Isoform 2 may play a role in neuromuscular junction development as an effector of the MUSK signaling pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207237