

Product datasheet for **MG207237**

Dnaja3 (BC027240) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnaja3 (BC027240) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnaja3
Synonyms:	1810053A11Rik, Tid1l, Tid-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207237 representing BC027240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGTGGTGTCCCCACGCTGGTTGAGGGTGGCAGTGGGGACTCCCCGGCTGCCGGCTGCAGCGG
 GGAGAGGGGTCCAGCAGCCCAGGGGGCGTAGTGGCAACATCCCTGTGTCGCAAGCTGTGCGTCTCTGC
 CTCGGGCTTTCCATGGGCGCTCACGGCCCCGGGCGCTGCTGACATTGAGACCCGGTGTCCGCCTCACA
 GGAACAAAAAGTTCCCTTTTGTGTACCACCTTTCCACACAAGTGTTCTTTGGCCAAAGATGATT
 ATTACCAGATCCTGGGAGTGCCCCGAAATGCCAGCCAGAAAGATATCAAGAAAGCCTATTATCAGCTTGC
 CAAGAAATATCATCCAGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTTCCAGCTGGCAGAA
 GCTTATGAGGTGTGAGCGATGAAGTGAAGAGGAAGCAGTATGACGCTTACGGCTCTGCTGGCTTTGACC
 CTGGCACCAGCAGCTCTGGCAGGGCTACTGGAGAGGAGTCCCTCTGTTGACCCCGAGGAGTTGTTGAG
 GAAGATCTTTGGGAGTTCTCATCTTCTCTTTTGGTGATTTCCAGAATGTGTTTATCAGCCTCAGGAA
 TACATCATGGAATTGACATTCATCAAGCTGCCAAGGGTGTCAACAAAGAGTTCACTGTGAACATTATGG
 ATACCTGTGAGCGCTGTGACGGCAAGGGGAACGAGCCTGGAACCAAAGTGACAGCATTGCCATTACTGTGG
 CGGCTCGGGCATGGAAACTATCAATACAGGGCCTTTTGTGATGCGTTCCACATGTCGGAGATGTGGTGGC
 CGGGGCTCCATCATCACAAATCCCTGTGTGGTCTGCAGGGGAGCAGGACAAGCCAAGCAGAAGAAGCGCG
 TGACAATTCCTGTGCCTGCAGGAGTTGAAGATGGTCAGACTGTAAAGATGCCAGTGGGAAAACGAGAAAT
 TTTTGTACATTCAGGGTGCAGAAAAGCCCTGTGTTCCGGAGGGACGGTGCAGACATCCACTCGGACCTC
 TTTATTTCAATAGCTCAAGCTATTCTTGGGGCCACAGCCAAAGCCAGGGCCTGTATGAGACAATCAATG
 TGACGATCCCTGCAGGGATTGAGACAGACCAGAAGATTGTTTACTGGAAAAGGCATCCCCGGATTAA
 TAGCTATGGCTATGGTGACCACTACATTCACATCAAGATCAGAGTTCCAAGAGGCTGAGCAGTAGGCAG
 CAGAACCTGATCCTGAGCTATGCCGAGGATGAGACTGACGTGGAGGGGACGGTTAATGGAGTCACCCACA
 CAAGCACTGGAAAAGCGTCAACTGGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207237 representing BC027240
 Red=Cloning site Green=Tags(s)

MAAWCSPRWLRVAVGTPRLPAAAGRGVQPPQGGVVATSLCRKLCVSAFGLSMGAHGPRALLLRPGVRLT
 GTKSFPPVCTTSFHTSASLAKDDYYQILGVPNRNASQKDIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAE
 AYEVLSDVEVKKQYDAYGSAGFDPGTSSSGQGYWRGGPSVDPEELFRKIFGEFSSSPFGDFQNVFDQPQE
 YIMELTFNQAAKGVNKEFTVNIMDTCERCDCGKGNPVGTKVQHCHYCGGSGMETINTGPFVMRSTCRRCGG
 RGSIIITNPCVVRGAGQAKQKRVITIPVAGVEDGQTVRMPVKGREIFVTFRVQKSPVFRRDGADIHSDL
 FISIAQAILGGTAKAQGLYETINVTIPAGIQTDQKIRLTGKGIPIRINSYGYGDHYIHIKIRVPKRLSSRQ
 QNLILSYAEDETDVEGTVNGVTHTSTGKRSTGN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC027240

ORF Size: 1361 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: [BC027240](#), [AAH27240](#)

RefSeq Size: 2545 bp

RefSeq ORF: 1361 bp

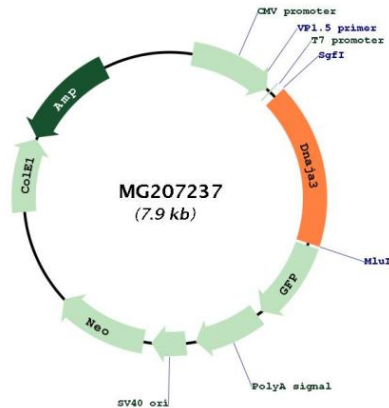
Locus ID: 83945

Cytogenetics: 16 2.46 cM

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 MG207237