

Product datasheet for **MG219417**

Dnajb6 (NM_011847) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dnajb6 (NM_011847) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dnajb6
Synonyms: HSJ-2; mDj4; Mrj
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219417 representing NM_011847
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGATTACTATGAAGTGCTGGGCGTGCAGAGACATGCCTCACCTGAGGACATTA AAAAGGCGTATC
 GAAAACAGGCACTTAAATGGCACCCGGACAAAAATCCTGAAAATAAAGAAGAAGCAGAGCGGAAGTTCAA
 ACAAGTAGCTGAGGCATATGAAGTGTATCGGATGCTAAAAGCGGGACATCTACGACAAATATGGCAA
 GAAGGATTAATGGTGGTGGAGGAGGAGGTGGAATTCATTTTGACAGTCCATTTGAGTTTGCTTCACAT
 TCCGGAACCCAGATGATGTCTTCAGGGAATTTTTGGTGAAGGGACCCATTTTCATTTGACTTCTTTGA
 AGACCCATTTGATGACTTTTTTGAAACCGAAGGGTCCCGAGGAAATAGAAGCCGAGGTGCCGGCTCA
 TTTTTCTACCTTCAGTGGATTCTCTTTTTGGAAGTGGATTTCTGCTTTTGATACAGGCTTCACTC
 CATTTGGGTCAGTGGTCACTAGGTCATGGGGTCTCACTTCATTTCTTCAACGTCATTTGGCGCAGTGGAAATGGG
 CACTTCAAAATCAATATCAACTCAACTAAGATAGTTAATGGCAAAAAATCACGACAAAGAGGATTGTG
 GAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGGCAGTTAAAGTCCTTGACAATAAATGGTAAGG
 AGCACCTGCTACGCTTGGATAACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219417 representing NM_011847
Red=Cloning site Green=Tags(s)

MVDYYEVLGVQRHASPEDIKKAYRKQALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKRDIYDKY GK
 EGLNGGGGGGIHFDSPFEFGFTFRNPDDVFEFFGGDRPFSFDFFEDPFDDFFGNRRGPRGNRSRGAGS
 FFSTFSGFPSFGSGFPFADTGFTPFGSLGHGGLTSFSSTSFSGSGMGNFKSISTSTKIVNGKKITTKRIV
 ENGQERVEVEEDGQLKSLTINGKEHLLRLDNK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_011847

ORF Size: 726 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_011847.4](#), [NP_035977.2](#)

RefSeq Size: 1645 bp

RefSeq ORF: 729 bp

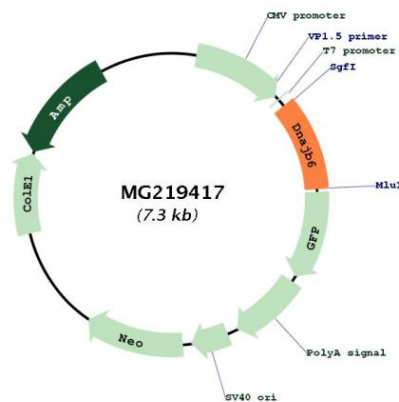
Locus ID: 23950

UniProt ID: [O54946](#)

Cytogenetics: 5 B1

Gene Summary: Plays an indispensable role in the organization of KRT8/KRT18 filaments. Acts as an endogenous molecular chaperone for neuronal proteins including huntingtin. Suppresses aggregation and toxicity of polyglutamine-containing, aggregation-prone proteins (By similarity). Has a stimulatory effect on the ATPase activity of HSP70 in a dose-dependent and time-dependent manner and hence acts as a co-chaperone of HSP70. Also reduces cellular toxicity and caspase-3 activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219417