

## Product datasheet for **RG229198**

### DNAJB12 (NM\_017626) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB12 (NM_017626) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAJB12
Synonyms:	DJ10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229198 representing NM_017626 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCATCACTCCGCGCCGGCTGCCGCGACGCGCCGGCGGGTGGCGCAGCCCTTCGCTCGCCCGCCT  
CCCCCTCCCTGGTTCGCGTTCTGGTTCGCCATGGAATCCAACAAGGATGAAGCTGAGCGCTGTATCAG  
CATCGCCCTCAAGCCATCCAGAGCAACCAGCCGACCGGGCGCTCCGCTTCTGGAGAAGGCACAGCGG  
CTGTATCCGACGCGGAGTTCGCGCCCTGATTGAGTCCCTCAACCAGAAACCACAGACTGCCGGTGACC  
AACCCCAACCACAGACACAACCCATGCCACCCACAGAAAGCAGGTGGGACCGATGCCCCCTCGGCCAA  
CGGTGAAGCTGGAGGAGAGACACAAAGGCTACTGTCAGAACAGGTTGCAGCTGTGAAAAGGGTCAAG  
CAATGTAAGATTACTATGAGATCCTGGGGTGAGCAGAGGGCCCTCGGATGAGGACCTGAAGAAGGCT  
ACCGCAGACTGGCCCTCAAATCCACCCAGACAAGAACCACGCACCTGGTGCCACTGAAGCCTTCAAAGC  
CATTGGCACAGCATATGCGGTAATCAGCAACCCGAGAAGAGGAAGCAGTATGACCAGTTCGGCGATGAC  
AAGAGCCAGGCGGCCCGCACGGCCATGGGCATGGGGATTTCCACCGTGGCTTTGAGGCCGACATCTCC  
CTGAAGACCTCTCAACATGTTCTTTGGCGGGCTTCCCTTCTAGTAACGTCCACGTCTACAGCAACGG  
CCGCATGCGCTATACCTACCAGCAAAGGCAGGACCGCAGGGACAACCAGGGTGTGGCGGGCTAGGGTG  
TTTGTGACAGTGCCTATCCTCATCTGATTCTCGTGTCACTCAGCCAGCTCATGGTCTCCAGT  
CACCTACAGTCTGAGTCCAAGACCGTCCGTGGGCCACATCCACAGGCGAGTCACTGACCACCTGGGTGT  
CGTCTACTATGTGGGAGACACTTCTCCGAAGGTACACAGGCTCCAGCCTCAAAACAGTCGAGCGGAAT  
GTGGAAGATGATTATATCGCAACCTCCGGAACAAGTGTGGAAGGAGAAGCAGCAGAAGGAAGGCTTGC  
TGTACCGGGCACGCTACTTTGGCGACACAGATATGTACCACAGAGCACAGAAGATGGGCACCCCAAGCTG  
CAGCCGACTGTCAGAGGTGCAGGCTCCCTGCATGGA

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229198 representing NM\_017626  
 Red=Cloning site Green=Tags(s)

MSSLRARLPATRRRVAQPFARPAASPSLVPRSGSAMESNKDEAERCISIALKAIQSNQPDRLRFLEKAQR  
 LYPTPRVRALIESLNQKPQTAGDQPPPTDTTHATHRKAGGTDAPSANGEAGGESTKGYTAEQVAAVKRVK  
 QCKDYIEILGVSRGASDEDLKKAYRRLALKFHPDKNHAPGATEAFKAIGTAYAVLSNPEKRKQYDQFGDD  
 KSQAARHGHGHGDFHRGFEADISPEDLFNMFFGGGFSSNVHVYSNGRMRYTYQQRQDRRDNDQGDGLGV  
 FVQLMPILILILVLSALSQMLVSSPPYSLSPRPSVGHHRVTDHDLGVVYVYVGDTFSEEYTGSSSLKTVERN  
 VEDDYIANLRNNCWKEKQQKEGLLYRARYFGDTDMYHRAQKMGTPSCSRLSEVQASLHG

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017626

**ORF Size:** 1227 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\\_017626.4](#), [NP\\_060096.3](#)

**RefSeq Size:** 3215 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 54788

**UniProt ID:** [Q9NXW2](#)

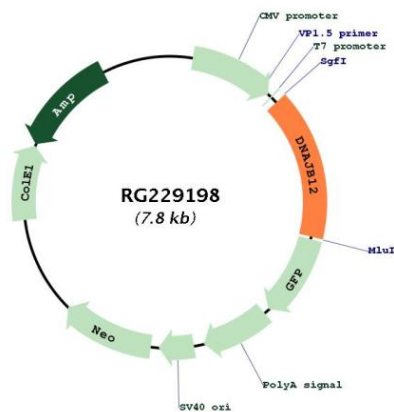
**Cytogenetics:** 10q22.1

**Domains:** Dnaj

**Protein Families:** Transmembrane

**Gene Summary:** DNAJB12 belongs to the evolutionarily conserved DNAJ/HSP40 family of proteins, which regulate molecular chaperone activity by stimulating ATPase activity. DNAJ proteins may have up to 3 distinct domains: a conserved 70-amino acid J domain, usually at the N terminus; a glycine/phenylalanine (G/F)-rich region; and a cysteine-rich domain containing 4 motifs resembling a zinc finger domain (Ohtsuka and Hata, 2000 [PubMed 11147971]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RG229198