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Product datasheet for RG229199

DNAJB12 (NM_001002762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB12 (NM_001002762) 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:

>RG229199 representing NM_001002762
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCATCACTCCGCGCCCGGCTGCCCGCGACGCGCCGGCGGGTGGCGCAGCCCTTCGCTCGCCCGGCCT
CCCCCTCCCTGGTTCCGCGTTCTGGTTCCGCCATGGAATCCAACAAGGATGAAGCTGAGCGCTGTATCAG
CATCGCCCTCAAGGCCATCCAGAGCAACCAGCCCGACCGGGCGCTCCGCTTCCTGGAGAAGGCACAGCGG
CTGTATCCGACGCCGCGAGTTCGCGCCCTGATTGAGTCCCTCAACCAGAAACCACAGACTGCCGGTGACC
AACCCCCACCCACAGACACAACCCATGCCACCCACAGGAAAGCAGGTGGGACCGATGCCCCCTCGGCCAA
CGGTGAAGCTGGAGGAGAGAGCACCAAAGGCTACACTGCAGAACAGGTTGCAGCTGTGAAAAGGGTCAAG
CAATGTAAAGATTACTATGAGATCCTGGGGGTGAGCAGAGGGGCCTCGGATGAGGACCTGAAGAAGGCCT
ACCGCAGACTGGCCCTCAAATTCCACCCAGACAAGAACCACGCACCTGGTGCCACTGAAGCCTTCAAAGC
CATTGGCACAGCATATGCGGTACTCAGCAACCCGGAGAAGAGGAAGCAGTATGACCAGTTCGGCGATGAC
AAGAGCCAGGCGGCCCGGCACGGCCATGGGCATGGGGATTTCCACCGTGGCTTTGAGGCCGACATCTCCC
CTGAAGACCTCTTCAACATGTTCTTTGGCGGCGGCTTCCCTTCTAGTAACGTCCACGTCTACAGCAACGG
CCGCATGCGCTATACCTACCAGCAAAGGCAGGACCGCAGGGACAACCAGGGTGATGGCGGGCTAGGGGTG
TTTGTGCAGCTGATGCCTATCCTCATCCTGATTCTCGTGTCAGCTCTCAGCCAGCTCATGGTCTCCAGTC
CACCCTACAGTCTGAGTCCAAGACCGTCCGTGGGCCACATCCACAGGCGAGTCACTGACCACCTGGGTGT
CGTCTACTATGTGGGAGACACTTTCTCCGAAGAGTACACAGGCTCCAGCCTCAAAACAGTCGAGCGGAAT
GTGGAAGATGATTATATCGCCAACCTCCGGAACAACTGCTGGAAGGAGAAGCAGCAGAAGGAAGGCTTGC
TGTACCGGGCACGCTACTTTGGCGACACAGATATGTACCACAGAGCACAGAAGATGGGCACCCCCAGCTG
CAGCCGACTGTCAGAGGTGCAGGCCTCCCTGCATGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>RG229199 representing NM_001002762
Red=Cloning site Green=Tags(s)

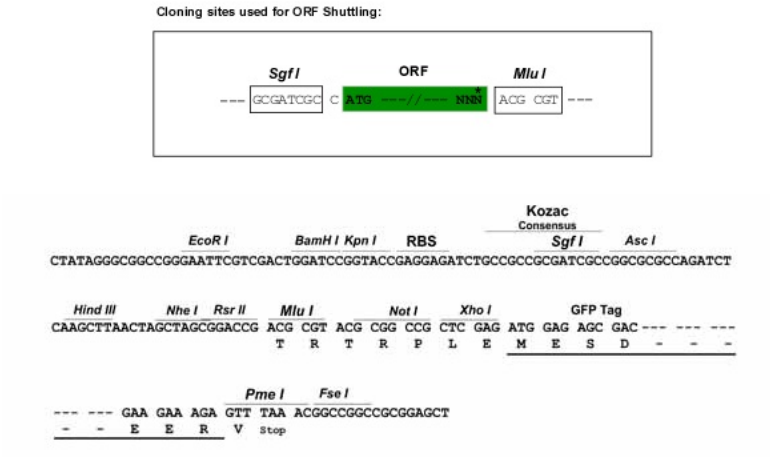
MSSLRARLPATRRRVAQPFARPASPSLVPRSGSAMESNKDEAERCISIALKAIQSNQPDRALRFLEKAQR
LYPTPRVRALIESLNQKPQTAGDQPPPTDTTHATHRKAGGTDAPSANGEAGGESTKGYTAEQVAAVKRVK
QCKDYYEILGVSRGASDEDLKKAYRRLALKFHPDKNHAPGATEAFKAIGTAYAVLSNPEKRKQYDQFGDD
KSQAARHGHGHGDFHRGFEADISPEDLFNMFFGGGFPSSNVHVYSNGRMRYTYQQRQDRRDNQGDGGLGV
FVQLMPILILILVSALSQLMVSSPPYSLSPRPSVGHIHRRVTDHLGVVYYVGDTFSEEYTGSSLKTVERN
VEDDYIANLRNNCWKEKQQKEGLLYRARYFGDTDMYHRAQKMGTPSCSRLSEVQASLHG

TRTRPLE – GFP Tag – V

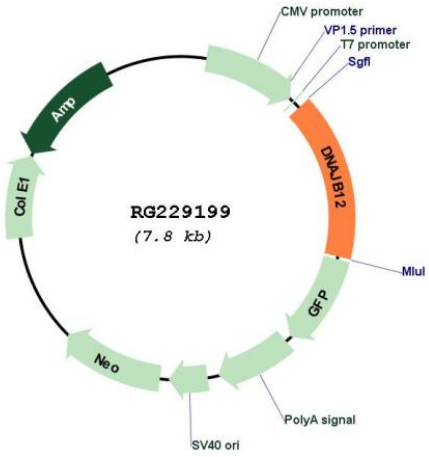
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001002762

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_001002762.2, NP_001002762.2
RefSeq Size:	4377 bp
RefSeq ORF:	1128 bp
Locus ID:	54788
UniProt ID:	Q9NXW2
Cytogenetics:	10q22.1
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]