

Product datasheet for **MG202557**

Dnajib9 (NM_013760) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnajib9 (NM_013760) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnajib9
Synonyms:	AA408011; AA673251; AA673481; AW556981; ERdj4; Mdg1; mDj7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202557 representing NM_013760 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACTCCACAGTCAGTTTTTCGTCTTTGCAATCTGCATTTTAAATGATAACAGAATTAATCCTGGCCT
CCAAAAGCTACTATGATATCTTAGGTGTGCCAAAGTCTGCCTCAGAGCGACAAATCAAAAAGCCTTTCA
CAAATTAGCCATGAAGTACCACCCTGACAAAAATAAAGCCCTGATGCTGAAGCAAATTCAGAGAGATT
GCAGAAGCGTATGAAACTCTCGGATGCCAATAGTCGAAAGAGTATGACACAATTGGACACAGTGCTT
TTACCAATGGCAAAGGACAAAGAGGCAATGGGAGTCCTTTTGAACAGTCATTTAACTTCAATTTTGATGA
CTATTTAAAGACTTTAATTTTTTTGGTCAGAACCAAAACTCGGTCTAAGAAGCATTTTGAAAACCAC
TTCCACACACGCCAGGATGGTTCTAGTAGACAAAGGCATCACTTCCAGGAGTTTTCTTTGGAGGCGGAT
TGTTTGATGATATGTTTGAAGACATGGAGAAAATGTTTTCTTTTAGTGGCTTTGATACCACCAATCGACA
CACAGTACAGACTGAAAATAGATTTTCATGGATCTAGCAAGCACTGCAGGACTGTCACTCAACGAAGAGGA
AATATGTTTACTACATACTGATTGTTTCAGGACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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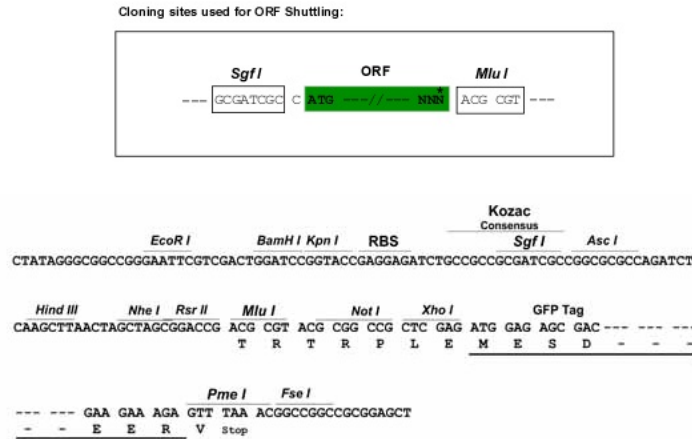
Protein Sequence: >MG202557 representing NM_013760
Red=Cloning site Green=Tags(s)

MATPQSVFVFAICILMITELILASKSYYDILGVPKSASERQIKKAFHKLAMKYHPDKNKSPDAEAKFREI
 AEAYETLSDANSRKEYDTIGHSAFTNGKGQGRNGSPFEQSFNFNFDLLFKDFNFGQNQNTRSKKHFENH
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 NMVTTYTDCSGQ

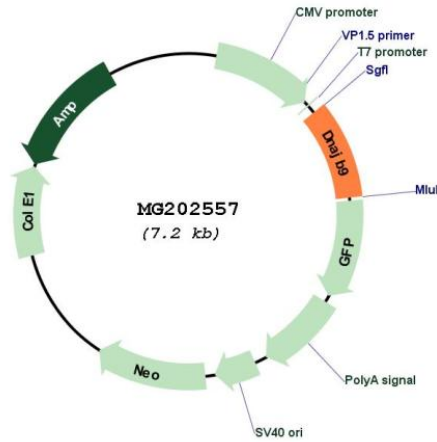
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_013760

ORF Size: 666 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:	<ol style="list-style-type: none">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_013760.4 , NP_038788.2
RefSeq Size:	1866 bp
RefSeq ORF:	669 bp
Locus ID:	27362
UniProt ID:	Q9QYI6
Cytogenetics:	12 B2
Gene Summary:	Co-chaperone for Hsp70 protein HSPA5/BiP that acts as a key repressor of the ERN1/IRE1-mediated unfolded protein response (UPR) (By similarity). J domain-containing co-chaperones stimulate the ATPase activity of Hsp70 proteins and are required for efficient substrate recognition by Hsp70 proteins (PubMed:11836248). In the unstressed endoplasmic reticulum, interacts with the luminal region of ERN1/IRE1 and selectively recruits HSPA5/BiP: HSPA5/BiP disrupts the dimerization of the active ERN1/IRE1 luminal region, thereby inactivating ERN1/IRE1 (By similarity). Also involved in endoplasmic reticulum-associated degradation (ERAD) of misfolded proteins (PubMed:22267725). Required for survival of B-cell progenitors and normal antibody production (PubMed:25222125).[UniProtKB/Swiss-Prot Function]