

Product datasheet for **RG202204**

DNAJA2 (NM_005880) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJA2 (NM_005880) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAJA2
Synonyms:	CPR3; DJ3; DJA2; DNAJ; DNJ3; HIRIP4; PRO3015; RDJ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202204 representing NM_005880 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAACGTGGCTGACACGAAGCTGTACGACATCCTGGGCGTCCC GCCCGGCCAGCGAGAACGAGC
TGAAGAAGGCATACAGAAAGTTAGCCAAGGAATATCATCTGATAAGAATCCAAATGCAGGAGACAAATT
TAAAGAAATAAGTTTTGCATATGAAGTACTATCAAATCCTGAGAAGCGTGAGTTATATGACAGATACGGA
GAGCAAGGTCTTCGGGAAGGCAGCGCGGAGGTGGTGGCATGGATGATATTTCTCTCACATTTTGGTG
GGGGATTGTTTCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAATGGCAGAAGAAGAGGAGGACATGAT
GCATCCACTCAAAGTATCTTTAGAGATCTGTATAATGGCAAGACAACCAAACCTACAACCTTAGCAAGAAT
GTGCTCTGTAGTGCATGCAGTGGCCAAGGCGAAAGTCTGGAGCTGTCCAAAAGTGTAGTGCTTGTGCGAG
GTGCGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCAGTCTGTGTGCTC
TGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAAGACCGCTGTAAAAATGTGAAGGGAAGAAGGTG
ATTAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATTCA
CTGGGGAAGCAGACCAGGCCAGGAGTGAACCCGGAGACATTTGTTCTTTGCTACAGGAGAAAAGAACA
TGAGGTATTTAGAGAGATGGGAATGATTTGCACATGACATATAAAATAGGACTTGTTGAAGCTCTATGT
GGATTTACAGTTACATTTAAGCACCTTGATGGACGTCAGATTGTGGTGAATACCCCTGGCAAAGTAA
TTGAACCAGGGTGTGTTGCTGTAGTTCGAGGTGAAGGGATGCCGAGTATCGTAATCCCTTTGAAAAGG
TGATCTTTACATAAAGTTTGATGTGCAGTTTCTGAAAACAACCTGGATCAACCCAGACAAGCTTTCTGAA
CTAGAAGATCTTCTGCCATCTAGACCGGAAGTTCCTAACATAATTGGAGAAAACAGAGGAGGTAGAGCTTC
AGGAATTTGATAGCACTCGAGGCTCAGGAGGTGGTCCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGA
AGAAAGCAGCAGCCATCATGGACCTGGAGTGCAGTGTGCCATCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202204 representing NM_005880
Red=Cloning site Green=Tags(s)

MANVADTKLYDILGVPPGASENELKKAYRKLAKKEYHPDKNPAGDKFKEISFAYEVL SNPEKRELYDRYG
 EQGLREGSGGGGGMDDIFSHIFGGGLFGFMGNQSRNRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKN
 VLCSACSGQGKSGAVQKCSACRGRGVRIMIRQLAPGMVQMQSVCSDCNGEGEVINEKDRCKKCEGKKV
 IKEVKILEVHVVDKGMKHGQRITFTGEADQAPGVEPGDIVLLLLQEKEHEVFQRDGNLHMTYKIGLVEALC
 GFQFTFKHLDGRQIVVKYPPGKVIIEPGCVRVVVRGEGMPQYRNPFKGDLYIKFDVQFPENNWINPKLSE
 LEDLLPSRPEVPNIIGETEEVELQFEDSTRSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005880

ORF Size: 1236 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_005880.4](#)

RefSeq Size: 1993 bp

RefSeq ORF: 1239 bp

Locus ID: 10294

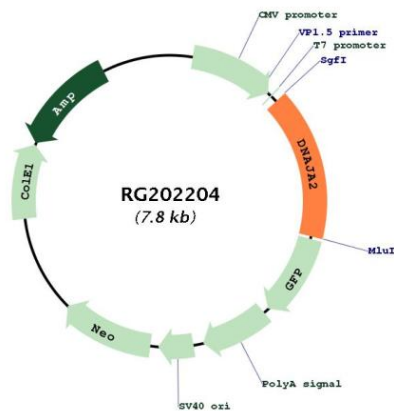
UniProt ID: [O60884](#)

Cytogenetics: 16q11.2

Domains: DnaJ_CXXCXGXG, DnaJ, DnaJ_C

Gene Summary: The protein encoded by this gene 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. The product of this gene works as a cochaperone of Hsp70s in protein folding and mitochondrial protein import in vitro. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202204