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Product datasheet for RG203743

DNAJB4 (NM_007034) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB4 (NM_007034) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAJB4
Synonyms:	DjB4; DNAJW; HLJ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG203743 representing NM_007034
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAAAGACTATTATTGCATTTTGGGAATTGAGAAAGGAGCTTCAGATGAAGATATTAAAAAGGCTT
ACCGAAAACAAGCCCTCAAATTTCATCCGGACAAGAACAAATCTCCTCAGGCAGAGGAAAAATTTAAAGA
GGTCGCAGAAGCTTATGAAGTATTGAGTGATCCTAAAAAGAGAGAAATATATGATCAGTTTGGGGAGGAA
GGGTTGAAAGGAGGAGCAGGAGGTACTGATGGACAAGGAGGTACCTTCCGGTACACCTTTCATGGCGATC
CTCATGCTACATTTGCTGCATTTTTCGGAGGGTCCAACCCCTTTGAAATTTTCTTTGGAAGACGAATGGG
TGGTGGTAGAGATTCTGAAGAAATGGAAATAGATGGTGATCCTTTTAGTGCCTTTGGTTTCAGCATGAAT
GGATATCCAAGAGACAGGAATTCTGTGGGGCCATCCCGCCTCAAACAAGATCCTCCAGTTATTCATGAAC
TTAGAGTATCACTTGAAGAGATATATAGTGGTTGTACCAAACGGATGAAGATTTCTCGAAAAAGGCTAAA
CGCTGATGGAAGGAGTTACAGATCTGAGGACAAAATTCTTACCATTGAGATTAAAAAAGGGTGGAAAGAA
GGCACCAAAATTACTTTTCCAAGAGAAGGAGATGAAACACCAAATAGTATTCCAGCAGACATTGTTTTTA
TCATTAAAGACAAAGATCATCCAAAATTTAAAAGGGATGGATCAAATATAATTTATACTGCTAAAATTAG
TTTACGAGAGGCATTGTGTGGCTGCTCAATTAATGTACCAACACTGGATGGAAGAAACATACCTATGTCA
GTAAATGATATTGTGAAACCCGGAATGAGGAGAAGAATTATTGGATATGGGCTGCCATTTCCAAAAAATC
CTGACCAACGTGGTGACCTTCTAATAGAATTTGAGGTGTCCTTCCCAGATACTATATCTTCTTCATCCAA
AGAAGTACTTAGGAAACATCTTCCTGCCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

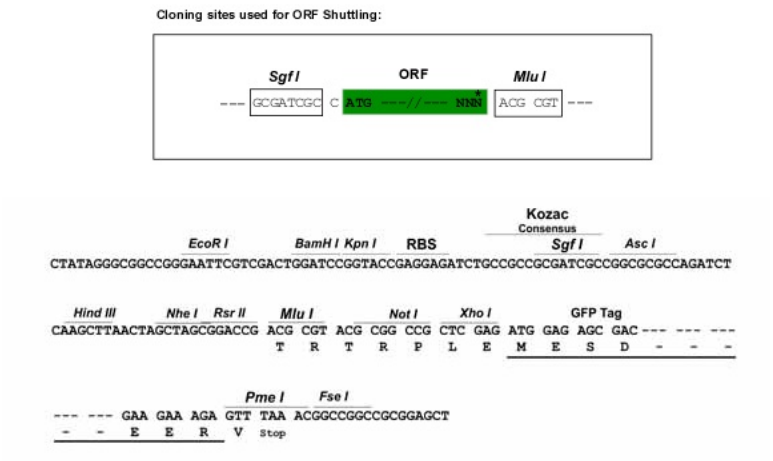
>RG203743 representing NM_007034
Red=Cloning site Green=Tags(s)

MGKDYYCILGIEKGASDEDIKKAYRKQALKFHPDKNKSPQAEEKFKEVAEAYEVLSDPKKREIYDQFGEE
GLKGGAGGTDGQGGTFRYTFHGDPHATFAAFFGGSNPFEIFFGRRMGGGRDSEEMEIDGDPFSAFGFSMN
GYPRDRNSVGPSRLKQDPPVIHELRVSLEEIYSGCTKRMKISRKRLNADGRSYRSEDKILTIEIKKGWKE
GTKITFPREGDETPNSIPADIVFIIKDKDHPKFKRDGSNIIYTAKISLREALCGCSINVPTLDGRNIPMS
VNDIVKPGMRRRIIGYGLPFPKNPDQRGDLLIEFEVSFPDTISSSSKEVLRKHLPAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007034

ORF Size: 1011 bp

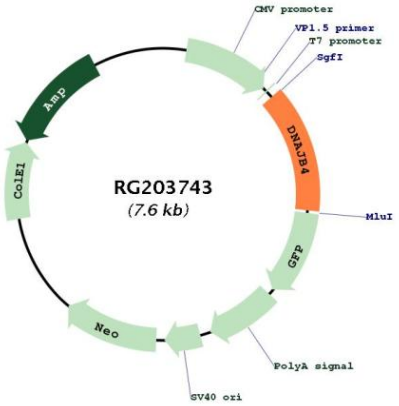
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_007034.5
RefSeq Size:	2250 bp
RefSeq ORF:	1014 bp
Locus ID:	11080
UniProt ID:	Q9UDY4
Cytogenetics:	1p31.1
Domains:	DnaJ, DnaJ_C
Gene Summary:	The protein encoded by this gene is a molecular chaperone, tumor suppressor, and member of the heat shock protein-40 family. The encoded protein binds the cell adhesion protein E-cadherin and targets it to the plasma membrane. This protein also binds incorrectly folded E-cadherin and targets it for endoplasmic reticulum-associated degradation. This gene is a strong tumor suppressor for colorectal carcinoma, and downregulation of it may serve as a good biomarker for predicting patient outcomes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG203743