

Product datasheet for **RG214348**

DNAJC21 (NM_194283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DNAJC21
Synonyms:	BMFS3; DNAJA5; GS3; JJJ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214348 representing NM_194283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGTGTCACTATGAGGCGCTGGGGTGCAGCGACGCCAGCGAGGAGAGCTCAAGAAGGCCTATC
 GGAAGCTGGCCCTGAAATGGCACCCGGATAAAATCTGGATAATGCCGAGAACGAGCTGAACAATTTAA
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 GCCCTACTTAAAGTGGGTTTATGGCGAATATCAAGATGACAGCTTAGATTTGCTACGCTATTTACCCG
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 ATCTCGGAATAAACTTTTTGACCATCTAAGGCCACAGGTCATGCAAGAGCACCTTCATCATCGTCTTTA
 AACAGCGCAACAAGTAGTCAAAGCAAGAAAGAGAAACGTAAAAACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

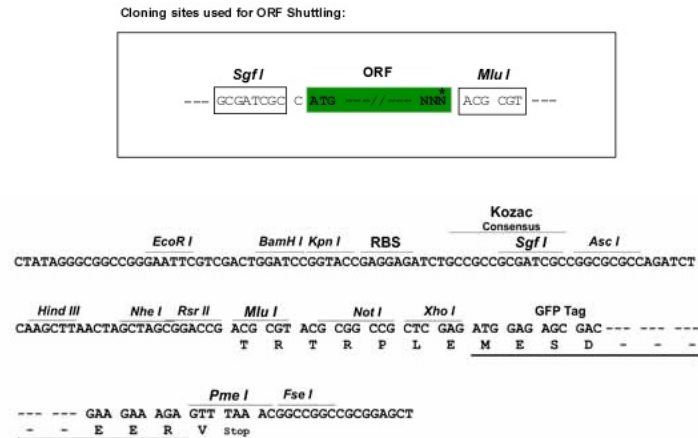
Protein Sequence: >RG214348 representing NM_194283
 Red=Cloning site Green=Tags(s)

MKCHYEALGVRRDASEEELKKAYRKLALKWHPDKNLDAEAAEQFKLIQAAYDVLSDPQERAWYDNHRE
 ALLKGGFDGEYQDDSLDLLRYFTVTCYSGYGDDEKGFYTVYRNVFEMIAKEELESVLEEEVDFFPTFGDS
 QSDYDVTVVHPFYAYWQSFCTQKNFAWKEEYDTRQASNRWEKRAKENKKIRDKARKEKNELVRQLVAFI
 RKRDKRVQHRKLVEEQNAEKARKAEEMRRQQLKQAKLVEQYREQSWMTMANLEKELQEMEARYEKEFG
 DGSDENEMEEHELKDEEDGKDSDEAEDAELYDDLCPACDKSFKTEKAMKNHEKSKKHREMVALLKQQLE
 EEEENFSRPQIDENPLDDNSEEEMEDAPKQKLSKKQKKKKQKPAQDVPKDSYLPAAHFQMAWGKKCVLG
 ERRDGESEHKCAKMLLENRQNYDDNFVNGPGEVGVKDPEDTNLNQDSAKELEDSPQENVSVTEIIPKPCD
 DPKSEAKSVKPKGKKTDMKKPVRVPAEPQTMSVLI SCTTCHSEFSPRNKLF DHLKATGHARAPSSSL
 NSATSSQSKKEKRNK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_194283

ORF Size: 1728 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.

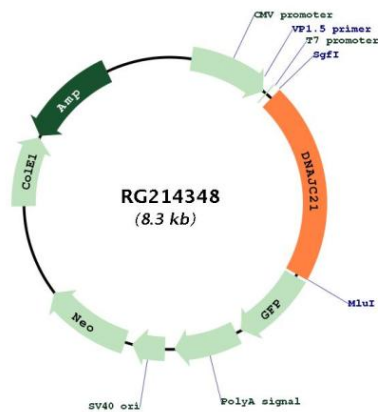
RefSeq: [NM_194283.4](#)

RefSeq Size: 6218 bp

RefSeq ORF: 1731 bp
Locus ID: 134218
UniProt ID: [Q5FIR6](#)
Cytogenetics: 5p13.2

Gene Summary: This gene encodes a member of the DNAJ heat shock protein 40 family of proteins that is characterized by two N-terminal tetratricopeptide repeat domains and a C-terminal DNAJ domain. This protein binds the precursor 45S ribosomal RNA and may be involved in early nuclear ribosomal RNA biogenesis and maturation of the 60S ribosomal subunit. Mutations in this gene result in Bone marrow failure syndrome 3. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RG214348