

Product datasheet for **SC301637**

DNAJC21 (NM_001012339) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	DNAJC21
Synonyms:	BMFS3; DNAJA5; GS3; JJJ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>SC301637 representing NM_001012339.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTGTCATATGAGGCGCTGGGGTGCGGCGGACGCCAGCAGGAGGAGCTCAAGAAGGCCTAT
CGGAAGCTGGCCCTGAAATGGCACC CGGATAAAAATCTGGATAATGCCGAGAAGCAGCTGAACAATTT
AAATTAATCCAAGCAGCATATGATGTGTTGAGTGACCCCTCAGGAAAAGAGCATGGTATGATAATCATAGA
GAGGCCCTACTTAAAGGTGGGTTTGATGGCGAATATCAAGATGACAGCTTAGATTTGCTACGCTATTTTC
ACCGTTACCTGTTATTCTGGTTATGGAGATGATGAAAAGGGATTTTACACGGTGATCGTAATGTTTTT
GAAATGATTGCCAAGGAAGAACTAGAATCTGTGTTAGAGGAAGAGTTGATGATTTCCCACTTTTGGG
GACTCCCAGAGTGACTATGATACGGTAGTCCATCCTTTCTACGCTTATTGGCAGAGTTTCTGCACTCAA
AAGAATTTTGCATGGAAGGAAGAATATGATACACGACAGGCTTCAAACCGCTGGGAAAAACGAGCCATG
GAAAAAGAAAAAAGATTGCGGACAAAGCAAGGAAAGAGAAGAATGAGCTTGCCGTCAGCTGGTA
GCTTTTCATTCGTAAGAGATAAAAGAGTGCAGGCGCATCGAAAACCTTGGAAGAACAGAAATGCAGAG
AAGGCCAGGAAAGCCGAAGAGATGAGGCGCAGCAGAAAGCTAAAGCAGGCCAACTGGTGGAGCAGTAC
AGAGAACAGAGCTGGATGACTATGGCAATTTGGAGAAAGAGCTCCAGGAGATGGAGGCACGGTACGAG
AAGGAGTTTGGAGATGGATCGGATGAAAATGAAATGGAAGAATGAATCAAAAGATGAGGAGGATGGT
AAAGACAGTGATGAGGCCGAGGACGCTGAGCTCTATGATGACCTTTACTGCCCAGCATGTGACAAATCG
TTCAAGACAGAAAAGGCCATGAAGAATCAGGAGAAGTCAAAGAAGCATCGGGAATGGTGGCCTTGCTA
AAACAACAGCTGGAGGAGGAAGAAGAAAATTTTCAAGACCTCAAATGATGAAAATCCATTAGATGAC
AATTCTGAGGAAGAAATGGAAGATGCACCAAAACAAAAGCTTTCTAAAAACAGAGAAGAAAAGAACAG
AAACCAGCACAGAATTATGATGACAATTTCAATGTAATGGACCTGGAGAAGGAGTAAAGGTTGATCCA
GAAGATACTAACTTAAATCAAGACAGTGCCAAAGAAATTGGAAGATAGTCCCAGGAAAATGTCAGTGTC
ACAGAGATCATTAAACCATGTGATGATCCAAAAAGTGAAGCTAAAAGTGTTCTAAACCCAAAGGAAAG
AAAACCAAGATATGAAAAACCTGTCAGAGTACCTGCTGAACCACAAACATGAGTGTTCTTATCAGC
TGTACAACCTGCCATAGTGAATTTCCATCTCGGAATAAACTTTTGACCATCTAAAGGCCACAGGTCAT
GCAAGAGCACCTTCATCATCGTCTTTAAACAGCGCAACAAGTAGTCAAAGCAAGAAAGAGAAACGTA
AACAGATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001012339

Insert Size:

1596 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001012339.2</u>
RefSeq Size:	6083 bp
RefSeq ORF:	1596 bp
Locus ID:	134218
UniProt ID:	<u>Q5FIR6</u>
Cytogenetics:	5p13.2
MW:	62 kDa
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] Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, as compared to variant 1. The encoded isoform (2) lacks an internal segment, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.