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# Product datasheet for SC100134

## DNAJC19 (NM_145261) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | DNAJC19 (NM_145261) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | DNAJC19 |
| **Synonyms:** | PAM18; TIM14; TIMM14 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >OriGene ORF within SC100134 sequence for NM_145261 edited (data generated by NextGen Sequencing)<br>ATGGCCAGTACAGTGGTAGCAGTTGGACTGACCATTGCTGCTGCAGGATTTGCAGGCCGT<br>TACGTTTTGCAAGCCATGAAGCATATGGAGCCTCAAGTAAAACAAGTTTTTCAAAGCCTA<br>CCAAAATCTGCCTTCAGTGGTGGCTATTATAGAGGTGGGTTTGAACCCAAAATGACAAAA<br>CGGGAAGCAGCATTAATACTAGGTGTAAGCCCTACTGCCAATAAAGGGAAAATAAGAGAT<br>GCTCATCGACGAATTATGCTTTTAAATCATCCTGACAAAGGAGGATCTCCTTATATAGCA<br>GCCAAAATCAATGAAGCTAAAGATTTACTAGAAGGTCAAGCTAAAAAATGA<br><br>Clone variation with respect to NM_145261.3 |



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_145261 unedited
GGGGTCAACTTTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGCGCCTGT
GCTTGAGGTTGGGGGTTGCGTCGCTCTCTGGTAAAGGCGTGCAGGTGTTGGCCGCGGCCT
CTGAGCTGGGATGAGCCGTGCTCCCGGTGGAAGCAAGGGAGCCCAGCCGGAGCCATGGCC
AGTACAGTGGTAGCAGTTGGACTGACCATTGCTGCTGCAGGATTTGCAGGCCGTTACGTT
TTGCAAGCCATGAAGCATATGGAGCCTCAAGTAAAACAAGTTTTTCAAAGCCTACCAAAA
TCTGCCTTCAGTGGTGGCTATTATAGAGGTGGGTTTGAACCCAAAATGACAAAACGGGAA
GCAGCATTAATACTAGGTGTAAGCCCTACTGCCAATAAAGGGAAAATAAGAGATGCTCAT
CGACGAATTATGCTTTTAAATCATCCTGACAAAGGAGGATCTCCTTATATAGCAGCCAAA
ATCAATGAAGCTAAAGATTTACTAGAAGGTCAAGCTAAAAAATGAAGTAAATGTATGATG
AATTTTAAGTTCGTATTAGTTTATGTATATGAGTACTAAGTTTTTATAATAAAATGCCTC
AGAGCTACAATTTTAAAAAATGATTTAGCACAAGCTAAATCTCAAAGCCTTGGTATAATT
TTCTTGTTTAAATTTGGGGATTNTAAATCAGATTATAGTTTAGAATATTTGCGTATTAAT
TATGGGCAAGCACACACCTTCTGAATAGAAATATTGTTCATTACTCATTTAGCAGATAAT
TTGGGACCTATGTCTACTTTTCAGGNCAAGTGAAGATGACAGTNCTTGCTCTCAGGNAGC
CCCCACTTTATGGGAGACTGATAAACTGGGTATTAGACTGTGANTAATAGTATGATGGAA
ATTAGCTTAAGCTGTNTAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_145261 unedited
NGGGTCTACTATGNACGCGGCCGCTATCTANGTCGAGTTTTTTTTTTTTTTTTTGCCCT
TAAACATCATTTAAATTTATTAGTGGATGAATTCTAAAGAGTCCAAATTAAATATGTTGA
TATTGAGAACATTTCAGTTTTCAGTTTTGCTAACAGGGTTTAAGCTTAATCATAACAATT
GCAGAAGTTTGATTATGTCAAGAAATAGCCAACTGAAGGAATAATTTATAAATGGTCATT
ACCTTTAAGGGGCTAGCTGAATACAATGTAAATACTCATGCCTGTAATCCCAGTACTTTG
GGAGGCTGAAGCGGGAGGACTGCTTAAACCCAGGAGGTTGAGGCTGCAATGAACTGTGAT
TGTACCAGACCTGTACTCTGAAATCTTTATCATACTATTTTTAATGCATGAAATAAAAAT
GGTTTATATGTACATAGAATACACACACACACACACCCCTAGGTCAATTTCTTAAGTCTC
AGTTGTGGTTAAATTCACTTTTAAATACAAGGTTCCAAGTATCCAAGTTGCCAGGCCAGT
TGCCTGTACCTGGAACAGCCTTTCCACCGAATAAGAAGAGTCCCTACTTAAACAGCTTAA
GCTAATTTCCATCATACTATTTATCACAGTCTAATTACCAGTTTATCAGTCTCCCATTAA
AGTGGGGGCTCCCTGAGAGCAAGGACTGTCATCTTCACTTTGCCTTGAAAAGTAGACATA
GGTCCCAAATTATCTGCTAAATGAGTGATGAACAATATTTCTATTCAGAAGGTGTGTGCC
TGCCCATAATTAATACGCAAATATTCTAAACATAATCTGATTTAAAATCCCCAAATTAAA
CAAGAAAATATACCCAGGGCTTTGGATTTAACTTGGG

**Restriction Sites:** NotI-NotI

**ACCN:** NM_145261

**Insert Size:** 1500 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_145261.2, NP_660304.1 |
| **RefSeq Size:** | 1431 bp |
| **RefSeq ORF:** | 351 bp |
| **Locus ID:** | 131118 |
| **UniProt ID:** | Q96DA6 |
| **Cytogenetics:** | 3q26.33 |
| **Domains:** | DnaJ |
| **Protein Families:** | Transmembrane |
| **Gene Summary:** | The protein encoded by this gene is thought to be part of a complex involved in the ATP-dependent transport of transit peptide-containing proteins from the inner cell membrane to the mitochondrial matrix. Defects in this gene are a cause of 3-methylglutaconic aciduria type 5 (MGA5), also known as dilated cardiomyopathy with ataxia (DCMA). Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 2, 6, 10, 14 and 19. [provided by RefSeq, Jan 2012]<br>Transcript Variant: This variant (1) encodes the longer isoform (1). |