

Product datasheet for **SC100719**

DNAJC10 (NM_018981) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJC10 (NM_018981) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNAJC10
Synonyms:	ERdj5; JPDI; MTHr; PDIA19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100719 sequence for NM_018981 edited (data generated by NextGen Sequencing)

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ATGGGAGTCTGGTTAAATAAAGATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGT
TTTCTGATAGTGTATATGGCCATTTTAGTGGGCACAGATCAGGATTTTACAGTTTACTT
GGAGTGTCCAAAACCTGCAAGCAGTAGAGAAATAAGACAAGCTTTCAGAAATTGGCATTG
AAGTTACATCCTGATAAAAAACCCGAATAACCCAAATGCACATGGCGATTTTTTAAAAATA
AATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAAAGTATGACAAATATGGA
GAAAAGGGACTTGAGGATAATCAAGGTGGCCAGTATGAAAGCTGGAACCTATTATCGTTAT
GATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGGAAAAGAAGAGAATTTGAT
GCTGCTGTTAATTCTGGAGAAGTGTGGTTGTAAATTTTTACTCCCAGGCTGTTACACAC
TGCCATGATTTAGCTCCCACATGGAGAGACTTTGCTAAAGAAAGTGGATGGGTTACTTCGA
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TATCCCAGTCTCTTCATTTTTCGGTCTGGAATGGCCCCAGTGAATATCATGGAGACAGA
TCAAAGGAGAGTTTGTGCAACTCCATACAACTGCTTTTGTGCTGGTATTGGCTGGCTG
ATCACTTTTTGTCAAAGGAGGAGATTGTTTGACTTCACAGACACGACTCAGGCTTAGT
GGCATGTTGGATGGTCTTGTAAATGTAGGATGGATGGACTGTGCCACCCAGGATAACCTT
TGTAAGCTTAGATATTACAACAAGTACTACTGCTTATTTTCTCCTGGAGCCACTTTA
AATAACAAAGAGAAAAACAGTATTTTGTCTCAACTCATTGGATGCTAAAGAAATATAT
TTGGAAGTAATACATAATCTCCAGATTTTGAAGTACTTTCCGGCAACACACTAGAGGAT
CGTTTGGCTCATCATCGGTGGCTGTTATTTTTTCAATTTGGAAAAATGAAAATCAAAT
GATCCTGAGCTGAAAAACTAAAACTACTTAAAAATGATCATATTCAAGTTGGCAGG
TTTGACTGTTCTCTGCACCAGACATCTGTAGTAATCTGTATGTTTTTCAGCCGCTCTA
GCAGTATTTAAAGGACAAGGAACCAAGAATATGAAATTCATCATGGAAAAGAGATTCTA
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CAAAATTTTCTGCCAATGACAAAGAACCATGGCTTGTGATTTCTTTGCCCTGGTGT
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CAGGCTTATCCAACAACAGTGGTATTCAACCAGTCCAACATTCATGAGTATGAAGGACAT
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GTTGATTTCTATTCTCCGTGGTGTATCCTTGCCAAGTCTTAATGCCAGAATGAAAAGA
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TCTTTTGTGCCAGGAAAACGTTCAAAGATACCCTGAGATAAGATTTTTTCCCCAAAA
TCAAATAAAGCTTATCAGTATCACAGTTACAATGGTTGGAATAGGGATGCTTATCCCTG
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AGTGAAAAGTTCTACAAGGGAAAAATCATTGGGTGATTGATTTCTATGCTCCTTGGTGT
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GTGAAAAGCTGAAAAGTAGACTGTCAGGCTTATGCTCAGACATGCCAGAAAGCTGGGATC
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GAGCAGATAAATACCAGAGATGCAAAAGCAATCGCTGCCTTAATAAGTAAAAATTGGAA
ACTCTCCGAAATCAAGGCAAGAGGAATAAGGATGAACTTTGA
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Clone variation with respect to NM_018981.1
609 c=>t;756 c=>t;1575 g=>a;1938 t=>g;2241 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018981 unedited
 ACACTATATTTGTAACGACTTTTATAGCGCGCCGACGAATTCGCACGAGGCCAATCCCG
 TGCGCCGCGGCTGGGCCGTCGGAGAGTGCCTGTGCTTCTCTCCTGCACCGGCTGCTTGGG
 CTCGGCCAGGCGGGTCCGCCGCCAGGGTTTGAGGATGGGGGAGTAGCTACAGGAAGCGA
 CCCC CGATGGCAAGGTATATTTTTGTGGAATGAAAAGGAAGTATTAGAAATGAGCTGAA
 GACCATTACAGATTAATATTTTTGGGGACAGATTTGTGATGCTTGATTACCCTTGAAG
 TAATGTAGACAGAAGTTCTCAAATTTGCATATTACATCAACTGGAACCAGCAGTGAATCT
 TAATGTTCACTTAAATCAGAACTTGCATAAGAAAAGAGAATGGGAGTCTGGTTAAATAAAG
 ATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGTTTTCTGATAGTGTATATGGCCA
 TTTTAGTGGGCACAGATCAGGATTTTTACAGTTTACTTGGAGTGTCCAAAACCTGCAAGCA
 GTAGAGAAATAAGACAAGCTTTCAAGAAATGGCATTGAAATTACATCCTGATAAAAACC
 CGAATAACCCAAATGCACATGGCGATTTTTAAAAATAAATAGAGCATATGAAGTACTCA
 AAGATGAAGATCTACGAAAAAGTATGACAAATATGGAGAAAAGGGACTTGAGGATAATC
 AAGGTGGCCAGTATGAAAGCTGGAATTTATCGTTATGATTTTGGTATTTATGATGATG
 ATCCTGANATCATAACATTGGAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAAC
 TGTGGGGTTGTAATTTTTACTNNCCAGCTGNTCACACTGCCATGATTTAGCTCCACATG
 GAGAGACTTTGCTAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018981 unedited
 ACTATGTACCGCGCCGCTTTCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTGAAAAATTGCAAGCCTTTTAATTCATTGACCTCTTTTGACTGATTGGAATTTTACCA
 TTCTGTACTCTGAATTATAACTAAACAACACTACATGTTACTGACAAATTTGTGATTCTT
 TGAGTCTAAACAACAGAACTAGAAGATCCCTTTCCTAGATTTATATACTTGATTTTC
 TTATAAAAATAACTTCAGTTATTATGTCAATTTTATCTGAAAAAGGCAGCCCTCTGACA
 GTAACACTAGTAACTGGAATAACTACAGTATCATTATAAGCTACAGTAAAACAACCTGTAA
 AGTAATTTTTCTATTTGAATAAATAAGACTGGACAGGAGTAAAAACCAAACCTATG
 AAAGAAAAACCCAATGTAATAAAGGATACAGGTCAAACAAAGTTCAGAAGGCAAAATAT
 GTAATATTAGATGCCTCAAAAATCAACTATCAGTGGGAAAATTTCTATGAAAGCAATTT
 CAGAAAAATACATGAACACATATATCTTTAAAATATAGAACTCTAAATACTTGATAACATA
 TTTAGGATACTCTACAATGCCAGTTAATTGCTATAATTTTTTTCCCTCAGGTTTTCTG
 GATGATACAGCAAACACTACAGAATTTGTGCACTTACTGTTGCTCAAATTTGTGTACTTACT
 GTGTGCACATATACTGCTGCACTGTTTCTCGGCTGTGAAAAATTAAGCATTTTTTACC
 TTTGAGAAGGAAGAAAACATGAAGATCTCCTATAATTATACACCTACAGGTTTTGTACT
 GTGCCACATCATGGTGTTTTTAAACGAAAATAAATTATGGGTTAGGTAGCATTTTTAGGG
 ACAATTGACCAAACACTAGTTACCTTTTTCGGGTCGCCAAAACCTGGAGGGAAGAGGCTTAT
 CCN

Restriction Sites:

NotI-NotI

ACCN:

NM_018981

Insert Size:

4700 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](#)

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_018981.1](#), [NP_061854.1](#)

RefSeq Size: 4193 bp

RefSeq ORF: 2382 bp

Locus ID: 54431

UniProt ID: [Q8IXB1](#)

Cytogenetics: 2q32.1

Domains: DnaJ, thiored

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes an endoplasmic reticulum co-chaperone which is part of the endoplasmic reticulum-associated degradation complex involved in recognizing and degrading misfolded proteins. The encoded protein reduces incorrect disulfide bonds in misfolded glycoproteins. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2012]

Transcript Variant: This variant (1) encodes the longest isoform (1).