

## Product datasheet for **RC234820**

### **DNAJC10 (NM\_001271581) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DNAJC10 (NM_001271581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJC10
Synonyms:	ERdj5; JPDI; MTHr; PDIA19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234820 representing NM\_001271581  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAGTCTGGTTAAATAAAGATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGTTTCTGATAG  
 TGTATATGGCCATTTTAGTGGGCACAGATCAGGATTTTTACAGTTTACTTGGAGTGTCCAAAACGCAAG  
 CAGTAGAGAAATAAGACAAGCTTTCAAGAAATTGGCATTGAAGTTACATCCTGATAAAAAACCGAATAAC  
 CCAATGCACATGGCGATTTTTTAAAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGA  
 AAAAGTATGACAAATATGGAGAAAAGGACTTGAGGATAATCAAGGTGGCCAGTATGAAAGCTGGAACATA  
 TTATCGTTATGATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGGAAAGAAGAGAATTTGAT  
 GCTGCTGTTAATCTGGAGAAGTGGTTTGTAAATTTTACTCCCAGGCTGTTACACTGCCATGATT  
 TAGCTCCACATGGAGAGACTTTGCTAAGAAGTGGATGGTTACTTCAATTGGAGCTGTTAACTGTGG  
 TGATGATAGAATGCTTTGCCGAATGAAAGGAGTCAACAGCTATCCAGCCTCTTCATTTTTCGGTCTGGA  
 ATGGCCCCAGTGAATATCATGGAGACAGATCAAAGGAGAGTTTGTGAGTTTGAATGCAGCATGTTA  
 GAAGTACAGTGACAGAAGTTTGGACAGGAAATTTGTCAACTCCATACAACTGCTTTTGTCTGCTGGTAT  
 TGGCTGGCTGATCACTTTTTGTTCAAAGGAGGAGATTGTTTGACTTCACAGACAGACTCAGGCTTAGT  
 GGCATGTTGTTTCTCACTCATTGGATGCTAAAGAAATATATTTGGAAGTAAATACATAATCTCCAGATT  
 TTGAACTACTTTTCGGCAAACACACTAGAGGATCGTTTGGCTCATCATCGGTGGCTGTTATTTTTTCATT  
 TGGAAAAATGAAATTCAAATGATCCTGAGCTGAAAAACTAAAACTACTTAAAAATGATCATATT  
 CAAGTTGGCAGGTTTACTGTTCTCTGCACCAGACATCTGTAGTAATCTGTATGTTTTTCAGCCGCTC  
 TAGCAGTATTTAAAGGACAAGGAACCAAGAATATGAAATTCATCATGGAAAGAAGATTCTATATGATAT  
 ACTTGCCTTTGCCAAAGAAAGTGTGAATCTCATGTTACCACGCTTGGACCTCAAATTTTCTGCCAAT  
 GACAAAGAACCATGGCTTGTGATTTCTTTGCCCCCTGGTGTCCACCATGTCGAGCTTTACTACCAGAGT  
 TACGAAGAGCATCAAATCTTCTTTATGGTCAGCTTAAGTTTGGTACACTAGATTGTACAGTTCATGAGGG  
 ACTCTGTAACATGTATAACATTCAGGCTTATCCAACAACAGTGGTATTCAACCAGTCCAACATTCATGAG  
 TATGAAGGACATCACTCTGCTGAACAACTTGGAGTTCATAGAGGATCTTATGAATCCTCAGTGGTCT  
 CCCTTACACCCACCCTCAACGAACTAGTTACACAAAGAAAACACAACGAAGTCTGGATGGTTGATTT  
 CTATTCTCCGTGGTGTATCCTTGCCAAGTCTTAATGCCAGAATGAAAAGAATGGCCCGGACATTA  
 ACTGGACTGATCAACGTGGGCAGTATAGATTGCCAACAGTATCATTCTTTTTGTGCCAGGAAAACGTTCAA  
 GATACCCTGAGATAAGATTTTTTCCCCAAAATCAAATAAAGCTTATCATTATCACAGTTACAATGGTTG  
 GAATAGGGATGCTTATCCCTGAGAATCTGGGGTCTAGGATTTTTACCTCAAGTATCCACAGATCTAACA  
 CCTCAGACTTTCAGTAAAAAGTTCTACAAGGGAAAAATCATTGGGTGATTGATTTCTATGCTCCTTGGT  
 GTGGACCTTGCCAGAATTTTGTCCAGAATTTGAGCTCTTGGCTAGGATGATTAAGGAAAAAGTGAAGC  
 TGGAAAAGTAGACTGTCAGGCTTATGCTCAGACATGCCAGAAAGCTGGGATCAGGGCCTATCCA  
 ACTGTTAAATTTTATTTCTACGAAAGAGCAAAGAGAAATTTTCAAGAAGAGCAGATAAATACCAGAGATG  
 CAAAAGCAATCGCTGCCTTAATAAGTAAAAATTTGAAACTCTCCGAAATCAAGGCAAGAGGAATAAGGATGA  
 ACT

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC234820 representing NM\_001271581  
Red=Cloning site Green=Tags(s)

MGVWLNKDDYIRDLKRIILCFLIVYMAILVGTDQDFYSLLGVSKTASSREIRQAFKLLALKLHPDKNPNN  
 PNAHGDFLKINRAYEVLKDEDLRKKYDKYGEKLEDNQGGQYESWNYRYDFGIYDDPEIITLERREFD  
 AAVNSGELWVNFYSPGCSHCHDLAPTWRDFAKEVDGLLRIGAVNCGDDRMLCRMKGVNSYPSLFI  
 FRSGMAPVKYHGDRSKESSLVSFAMQHVRSTVTELTGTFVNSIQTAFAAGIGWLITFCSKGGDCLTSQTR  
 LRSLGMLFLNSLDAKEIYLEVIHNLPDFELLSANTLEDRLAHHRWLLFFHFGKNENSNDPELKKLKTLLKNDHI  
 QVGRFDCSSAPDICSNLVYFQPSLAVFKGQGTKEYEIHGGKKILYDILAFAKESVNSHVTTLPQNF  
 PANDKPEWLVDFAPWCPCPCRALPELRRASNLLYGQLKFGTLDCTVHEGLCNMYNIQAYPTTVVFNQ  
 SNIHEYEGHSAEQILEFIEDLMNPSVSVSLTPTTFNELVTQRKHNEVVMVDFYSPWCHPCQVLMPEW  
 KRMARTLTGLINVGSIDCQQYHSFCAQENVQRYPERIRFFPPKSNKAYHYHSYNGWNRDAYSLRIWGL  
 GFLPQVSTDLTPQTFSEKVLQGNHWVIDFYAPWCGPCQNFAPFELLARMIKGKVKAGKVDQAYAQTCQK  
 AGIRAYPTVKFYFYERAKRNFQEEQINTRDAKAI AALISEKLETLRNQGRNKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271581

**ORF Size:** 2241 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.

**RefSeq:** [NM\\_001271581.3](#)

**RefSeq Size:** 5783 bp

**RefSeq ORF:** 2244 bp

**Locus ID:** 54431

**UniProt ID:** [Q8IXB1](#)

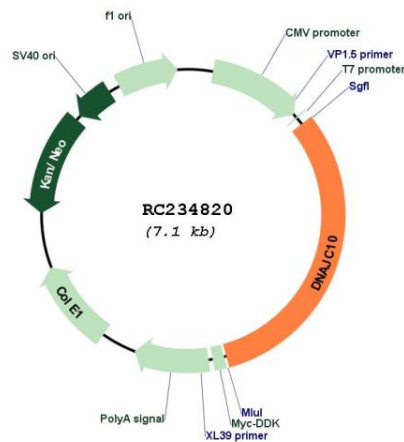
**Cytogenetics:** 2q32.1

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 86.6 kDa

**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]

### Product images:



Circular map for RC234820