

Product datasheet for **RN212586**

Dnajc10 (NM_001106486) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnajc10 (NM_001106486) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dnajc10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN212586 representing NM_001106486
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGTCTGGTTAAACAGAGATGAATTTATCAGAGACGTGAAGCGGATAAGTCTCTGTCTTCTAGTAC
 TGTATGTGGTTATCGTGGTGGGCACGGATCAGAATTTTTACAGTTTACTTGGAGTGTCTAAAACCTGCAAG
 CAGCAGAGAAAATAAGACAAGCCTTTAAAGAAATAGCACTGAAGTTACATCCTGATAAAAAACCGAATAAC
 CCAATGCACATGGTGATTTTTTAAAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTGCGGA
 AAAAGTATGACAAATACGGAGAAAAGGGCTGGAAGATAATCAGGGAGGCCAGTACGAGAGCTGGAGCTA
 CTACCGCTACGACTTCGGTATTTACGATGATGATCCTGAGATCATAACATTAGAAAAGAAGAGAATTTGAT
 GCTGCTGTCAACTCGGAGAACTGTGGTTGTAACTTTACTCCCCGGGATGTTTCGATTGCCATGATT
 TAGCCCCACTTGGAGAGAATTTGCTAAGAAGTGGATGGATTGCTTCCAATCGGAGCTGTCAACTGTGG
 TGATGACCGGATGCTTTGCCGAATGAAAGGAGTCAACAGTTACCCAGCCTCTTCATCTTTAGGTCTGGA
 ATGGCTGCAGTGAAGTACAACGGGGATAGGTCAAAGGAGAGCTTAGTGAGCTTCGCCATGCAGCAGTCA
 GGACCACAGTGACAGAGCTGTCAACAGGAAATTTGTTAATGCCATAGAACTGCCTTTGCTGCTGGTAT
 TGGCTGGCTGATCACATTCTGTTTTAAAGGAGAAGATTGTTTGACACCACAGACAGACTCCGGCTTAGT
 GGCATGTTGGATGGCCTTGTTAACGTGGGATGGGTGGACTGTGACACACAGGACAGCCTCTGCAAGAGCC
 TGGACGCCACAGCCAGCACTACTGCCTATTTCCCTCCTGGAGCCACTTTGAATAACAAAGAAAAATCCAG
 TGTTTTGTTTCTAATCTCTGGATGCTAAGGAAATATACATGGAATCATACATAATCTCCAGACTTT
 GAATCTTTTTCAGCAAAATAACTAGAGGATCGTTTGGCACATCATCGCTGGCTTGATTTTTTTCATTTTG
 GAAAAATGAAAAATGCAAAATGATCCTGAATTTGAAAAAAGTAAAACTACTTAAAAATGAACATATTCA
 AGTTGGAAGTTTGACTGCTCTTCTGCACCAGGCATCTGCTCTGATCTTTATGTTTTCCAGTCTTGTCTA
 GCAGTGTTTAAAGGACAAGGAACCAAGAATATGAAATTCATCACGAAAAGAAAGATTCTATACGATATAC
 TTGCTTTTGCCAAAGAAAGTGTTAATTCGCACGTTACCACACTTGGACCTCAGAATTCCTGCAAGTGA
 CAAAGAACCGTGGCTTGTGACTTCTTTGCCCTTGGTGTCCGCCATGCCGTGCGCTTTTGCCAGAGTTA
 CGGAAAGCATCAACTGCTCTATGGTCAGCTCAAAGTTGGTACCCTAGACTGCACAATTCATGAAGGAC
 TCTGCAACATGTATAACATCCAAGCTTATCCAACAACAGTGGTGTCAACCAGTCCAGTGTTCATGAGTA
 TGAAGGACATCATTCTGCGGAACAGATCCTGGAGTTCATAGAGGATCTCAGAAACCTTCCGTGGTCTCT
 CTTACACCCACCACTTTCAATGAACTAGTTAAACAGAGAAAACATGACGAAGTCTGGATGGTTGATTCT
 ATTCTCCATGGTGTATCCCTGTGAGGCTTAATGCCAGAGTGGAAACGCATGGCCCGGACGTTAACTGG
 ATTGATCAATGTAGGCAGTGTGGACTGCCAACAGTATCATTCTTTTTGACTCAAGAAAATGTCCAGAGA
 TACCCTGAGATAAGATTTTATCCCCAAAAGTCAAGTAGAGCTTATCAGTATCATAGTTACAATGGCTGGA
 ATAGGGATGCTTATCCCTGAGAAGCTGGGGTCTCGGGTTTTTACCCCAAGCATCCATAGATTTAACACC
 TCAGACATTCAACGAAAAAGTTCTACAAGGAAAAACTCACTGGGTGATTGATTTCTATGCTCCTTGGTGT
 GGACCTTGCCAGAATTTGCTCCCGAGTTTGAACCTTTGGCTAGGATGATCAAAGGAAAAGTAAAAGCTG
 GAAAAGTGGACTGTCAGGCTTACCCCAACAGTCCAGAAAAGTGGCATCAGAGCCTACCCAGTGTCAA
 ACTGTACCTCTATGAAAGAGCAAAGAAAAGTATTTGGGAAGAGCAAATAAATTCAGAGATGCAAAAAC
 ATTGCTGCCTAATTTATGAAAAATTGAAACGTTCCAAAGCCAAGTAAAGAGAAAATAAGGATGAGCTCT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001106486
Insert Size: 2382 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).
Reconstitution Method:	<ol style="list-style-type: none">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_001106486.2 , NP_001099956.2
RefSeq Size:	4159 bp
RefSeq ORF:	2382 bp
Locus ID:	295690
UniProt ID:	Q498R3
Cytogenetics:	3q24
Gene Summary:	Endoplasmic reticulum disulfide reductase involved both in the correct folding of proteins and degradation of misfolded proteins. Required for efficient folding of proteins in the endoplasmic reticulum by catalyzing the removal of non-native disulfide bonds formed during the folding of proteins, such as LDLR. Also involved in endoplasmic reticulum-associated degradation (ERAD) by reducing incorrect disulfide bonds in misfolded glycoproteins recognized by EDEM1. Interaction with HSPA5 is required its activity, not for the disulfide reductase activity, but to facilitate the release of DNAJC10 from its substrate. Promotes apoptotic signaling pathway in response to endoplasmic reticulum stress (By similarity). [UniProtKB/Swiss-Prot Function]