

Product datasheet for **MC205861**

Dnajc10 (NM_024181) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnajc10 (NM_024181) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnajc10
Synonyms:	1200006L06Rik; D2ErtD706e; ERdj5; JPDI
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC033461
GCGTTCGCAGGCAGCGTCCGGTCTGCCGGTCCGGAGCTCGCGGCCTGAGGATGGGGCAGTAGCTGAG
GACGCCGAGGTTAACATTTCTGAGCTGTGTTCCCGAGATGCTTGATTGACCCCTGAAGTTATGTGGACAG
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CCAGTATTCATGAGTATGAAGGACATCACTCTGCGGAACAGATCTTGGAGTTCATAGAGGATCTCAGAAA
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TGCTTTTTTCAAGTAAAGTATTCCATAACAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** RsrII-NotI
- ACCN:** NM_024181
- 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:**
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:** [BC033461](#), [AAH33461](#)
- RefSeq Size:** 3616 bp
- RefSeq ORF:** 2382 bp

Locus ID: 66861

UniProt ID: [Q9DC23](#)

Cytogenetics: 2 C3

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.[UniProtKB/Swiss-Prot Function]