

## Product datasheet for MC201823

### Dnajb12 (NM\_019965) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dnajb12 (NM_019965) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnajb12
Synonyms:	Dj10; mDj10
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC034162 sequence for NM\_019965  
 CCGGCCTGCCCGACGCGCCGGCGGCTGGCGCAGCCCTTCGCTCGCCCGCCTCCCCCTCCCTGGTTC  
 CGTGCTCGGGTTCGCCATGGAATCCAACAAGGATGAAGCCGAGCGCTGTATCAGCATCGCCCTCAAGGC  
 CATCCAAAGCAACCAGCCGAGCGGGCGCTGCGCTTCTGGAGAAGGCGCAGCGCTCTACCCGACGCCA  
 CGAGTCAGCGCACTGATCGAGTCCCTCAACCAAAACACAGTCCACCGTGATCACCTCAACCCACAG  
 AACTACCCATACCACCAAGAAGGCAGGCGGGACCGAAACCCCTCAGCCAACGCGAGGCAGGAGG  
 AGGGGAGAGCGCAAGGGCTATACCTCAGAGCAGGTGGCAGCTGTGAAAAGGGTCAAGCAGTGTAAGAT  
 TACTATGAGATCCTTGGGGTAAGCAGAAGTGCCTCAGATGAGGACCTAAAGAAGGCTACCGCAAGCTGG  
 CCCTCAAGTTCATCCAGACAAGAACCATGCGCTGGGGCCACTGAAGCTTTCAAAGCCATTGGCACAGC  
 GTATGCCGTACTCAGCAACCCAGAGAAAAGGAAACAGTACGACCAGTTTGGTGATGACAAGACCCAGGCT  
 GCCCGGCACGGCCACAGCCACGGGGACTTCCACCGAGGCTTTGAGGCTGACATCTCCCAGAACCTCT  
 TTAACATGTTCTTTGGTGGCGGCTTTCCTTCCAGTAACGTTTCATGTCTACAGCAATGGCCGAATGCGGTA  
 CACCTACCAGCAGAGGCAAGACCGCAGAGACAACCAAGGTTGATGGCGGGCTAGGAGTGTTCTGTCAGCTG  
 ATGCCATCCTCATCCTCATCCTCGTGTCTGCGCTCAGCCAGCTCATGGTGTCCAGTCTCCCTACAGCC  
 TGAGCCCAGACCGTCACTGGGCCACATCCACAAGCGAGTCACTGACCACCTGAACGTGCGCTACTACGT  
 GGCAGACACCTTCTCCGAAGAGTACACGGGCTCCAGCCTCAAACAGTGGAAACGGAATGTAGAGGATGAC  
 TACATCGCAACCTGCGCAACAACCTGCTGGAAGGAGAAGCAGCAGAGAAGGAAGGCTTGCTGTACCGAGCCC  
 GCTACTTTGGTGACACAGACATGTACCACAGAGCACAGAAGATGGGCACCCCGAGTTGCAATCGGCTGTC  
 AGAGTGCAGGCCTCCCTGCATGGATAGTCTGGGCCAGCCACACCAGTCCAAACTATGAAATCC  
 CTGGAGAATTTTTGGTGACACACTGAGCCAGCCACAGTGATGGACTGTATTTAAAGGAAAGACATAC  
 ACAGAAAAAATTTAAATGGAACCTGGAAGCCAAACACCGCAGCCATCCTCTCAGACAGTGAATGCAG  
 AAAGCTCTTAGGACAGACAGACAGACAGCCTACCTCGGGCTGCTTCTCCTCTCCAGGGCAGGCAAGAA  
 GCTCCGCATCACTGGCTCCTAGGATACCGAAACCATGGCAACGAAAGTAGAATGTAAAATTGCAGCAAA  
 TGTCTGTGGGAAGGACTGGGGAGGGGACACCCACTGTGTCTCCTCCCTCCTCCCTGAGCTGCCACCA  
 GTCCTCAAGGAGAAATCAGGCTGAGGCATGGGCCAAGGAACAGAGAGGAGAGAATTCAGAGAACGTAA  
 CTTAGAAATGCGTATGTATGTATATATATATCTATTTATATGTAATAGACATATATAAAGATATATATA  
 TATATATAAAGTCTTTTAAACTAAAAAAAAAAAAAAAAA



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<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_019965
<b>Insert Size:</b>	1131 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC034162</a> , <a href="#">AAH34162</a>
<b>RefSeq Size:</b>	1789 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	56709
<b>UniProt ID:</b>	<a href="#">Q9QYI4</a>
<b>Cytogenetics:</b>	10 B4
<b>Gene Summary:</b>	Acts as a co-chaperone with HSPA8/Hsc70; required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote unfolded proteins to endoplasmic reticulum-associated degradation (ERAD) pathway. Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities. Can also act independently of HSPA8/Hsc70: together with DNAJB14, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers. While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70. When overexpressed, forms membranous structures together with DNAJB14 and HSPA8/Hsc70 within the nucleus; the role of these structures, named DJANGOs, is still unclear.[UniProtKB/Swiss-Prot Function]