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Product datasheet for MC211083

Dnajb14 (NM_001033155) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Dnajb14
Synonyms:	5730496F10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC211083 representing NM_001033155
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGCAACCGCGACGAGGCGGAGAAATGCGTGCAGATCGCTCGCGAGGCCCTGAGCGCCGGCAACC
GCGACAAGGCCCAGCGCTTCCTCCAGAAGGCCGAGAAGCTGTACCCGCTGCCGGCCGCGCGCGCGTTATT
GGAAATAATTATGAAAAACGGCAGCACCGCTGGAAGTAGCACGCATTGCCGAAAACCTCCTGGGAGCAGC
GACCAGAGCAAGCCCAGCTGTGGAAAGGACGGCACTTCTGGTGCTGGGGAAGGCGGGAAAGTCTATACCA
AAGACCAAGTAGAGGGCGTGCTCAGCATAAACAAATGTAAAAATTACTACGAAGTCCTCGGAGTTACAAA
AGATGCTGGTGATGAAGATTTGAAAAAAGCTTATAGGAAGCTTGCTTTGAAGTTTCATCCAGACAAAAAC
CACGCCCCTGGAGCCACGGATGCTTTCAAAAAGATTGGAAACGCTTACGCCGTCCTAAGCAATCCAGAGA
AACGAAAACAGTATGACCTCACAGGCAGTGAAGAGCAAGCCTGTAACCACCAGAACAACGGCAGGTTCAA
TTTCCACCGGGGCTGTGAGGCCGACATAACTCCCGAAGACCTGTTCAATATCTTCTTTGGCGGTGGATTT
CCTTCAGGTAGTGTACATTCATTTTCAAATGGCCGGGCTGCTTACAGCCATCAACATCAGCACCGACACA
GTGGGCATGAAAGAGAAGAAGAAAGAGCGGATGGAGGCTTCTCTGTCTTCATTCAGCTCATGCCCATCAT
TGTGCTGATCCTTGTGTCCTTGTTAAGCCAGCTGATGGTCTCGAACCCTCCGTACTCCTTATACCCCAGA
TCTGGATCAGGACAAACTATTAAAATGCAGACAGAAAACTTGGGTGTTGTTTATTACGTCAGTAAGGACT
TTAAAAGCGAATATAAAGGAACACTATTACAAAAAGTAGAAAAGAGTGTGGAAGAGGATTACGTGACTAA
TATTCGAAATAACTGCTGGAAAGAAAGACAGCAGAAAACAGATATGCAGTATGCAGCCAAAGTGTACCGT
GATGAGCAGCTGCGGAGGAAGGCGGATGCCCTGAGCATGGAGAACTGCAAGGAGCTAGAGCGGCTGACCA
GTCTCTACAAGGGGGGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001033155
Insert Size:	1140 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001033155.1, NP_001028327.1
RefSeq Size:	1851 bp
RefSeq ORF:	1140 bp
Locus ID:	70604
UniProt ID:	Q149L6
Cytogenetics:	3 G3

Gene Summary: 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 DNAJB12, 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 DNAJB12 and HSPA8/Hsc70 within the nucleus; the role of these structures, named DJANGOs, is still unclear. [UniProtKB/Swiss-Prot Function]