

# Product datasheet for RC209910

### DNAJC19 (NM\_145261) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	DNAJC19 (NM_145261) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJC19
Synonyms:	PAM18; TIM14; TIMM14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC209910 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCCAGTACAGTGGTAGCAGTTGGACTGACCATTGCTGCTGCAGGATTTGCAGGCCGTTACGTTTTGC AAGCCATGAAGCATATGGAGCCTCAAGTAAAACAAGTTTTTCAAAGCCTACCAAAATCTGCCTTCAGTGG TGGCTATTATAGAGGTGGGTTTGAACCCAAAATGACAAAACGGGAAGCAGCATTAATACTAGGTGTAAGC CCTACTGCCAATAAAGGGAAAATAAGAGATGCTCATCGACGAATTATGCTTTTAAATCATCCTGACAAAG GAGGATCTCCTTATATAGCAGCCAAAATCAATGAAGCTAAAGATTTACTAGAAGGTCAAGCTAAAAAA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RC209910 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MASTVVAVGLTIAAAGFAGRYVLQAMKHMEPQVKQVFQSLPKSAFSGGYYRGGFEPKMTKREAALILGVS PTANKGKIRDAHRRIMLLNHPDKGGSPYIAAKINEAKDLLEGQAKK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6363_a09.zip
<b>Restriction Sites:</b>	Sgfl-Mlul



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#### **Cloning Scheme:**



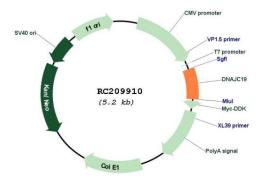
\* The last codon before the Stop codon of the ORF

ACCN:	NM_145261
ORF Size:	348 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 145261.4</u>
RefSeq Size:	1476 bp
RefSeq ORF:	351 bp
Locus ID:	131118

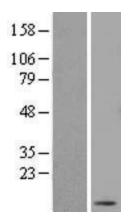
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	DNAJC19 (NM_145261) Human Tagged ORF Clone – RC209910
UniProt ID:	<u>Q96DA6</u>
Cytogenetics:	3q26.33
Domains:	DnaJ
Protein Families:	Transmembrane
MW:	12.5 kDa
Gene Summary:	The protein encoded by this gene is thought to be part of a complex involved in the ATP- dependent transport of transit peptide-containing proteins from the inner cell membrane to the mitochondrial matrix. Defects in this gene are a cause of 3-methylglutaconic aciduria type 5 (MGA5), also known as dilated cardiomyopathy with ataxia (DCMA). Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 2, 6, 10, 14 and 19. [provided by RefSeq, Jan 2012]

## **Product images:**



Circular map for RC209910



Western blot validation of overexpression lysate (Cat# [LY407987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209910 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified DNAJC19 protein (Cat# [TP309910]). The protein was produced from HEK293T cells transfected with DNAJC19 cDNA clone (Cat# RC209910) using MegaTran 2.0 (Cat# [TT210002]).

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