

Product datasheet for **RC225965**

DNAJC2 (NM_001129887) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJC2 (NM_001129887) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJC2
Synonyms:	MPHOSPH11; MPP11; ZRF1; ZUO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225965 representing NM_001129887
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCTTCTGCCAAGCGCCGCGGACGGCCGGGGACCGCCATCACCCACGCTCTGACCTCTGCCTCTA
 CACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTGAAGCTTTTGTAAAGAGGAGAAACAGAAATGCTTC
 TGCTCTTTTTCAGGAAGTGGAGGATAAGAAAGATTATCCGAGGAATCAGAAAGTGAAGAATTGCAGTTG
 GAAGAGTTTCCATGCTGAAAACACTTGATCCCAAAGACTGGAAGAACCAAGATCATTATGCAGTTCTTG
 GACTTGGCCATGTGAGATACAAGGCTACACAGAGACAGATCAAAGCAGCTCATAAGCAATGGTTTTAA
 ACATCACCCAGACAAACGGAAAGCAGCTGGTGAACCAATAAAGAAGGAGATAATGACTACTTCACTTGC
 ATAATAAGCTTATGAAATGTTATCTGATCCAGTGAAGAACGAGCATTAAACAGTGTAGATCCTACTT
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 AAACATACCCAGTAAATACACTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCTGGCAGGACAAAGAA
 GGACTGCATGAACGATACAAGGAAGTTGTCGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTG
 CGAATGCAAGTAGAGCCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225965 representing NM_001129887
 Red=Cloning site Green=Tags(s)

MLLLPSAADGRGTAITHALTSASTLCQVEPVGRWFEAFVKRRNRNASASFQELDKKELSEESEDEELQL
 EEFPMKLTLDPKDWKNQDHYAVLGLGHVRYKATQRQIKAAHKAMVLKHHDPKRKAAGEPIKEGDNDYFTC
 ITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKDNFFEVFTPVFERNRWSNKKNVPKLGMNSSFED
 VDIFYSFYWNFDSWREFSYLDEEEKEKAECRDERRWIEKQNRATRAQRKKEEMNRIRTLVDNAYSCDPRI
 KKFKEEEKAKKEAEKKAKAEAKRKEQEAKEQRQAELEAARLAKEKEEEEVRQQALLAKKEKDIQKKA
 IKERQKLNRNSCKIEEINEQIRKEEEAEARMRQASKNTEKSTGGGNGSKNWSDDLQLLIKAVNLFPA
 GTSNRWEVIANYMNIHSSSGVKRTAKDVIGKAKSLQKLDPHQKDDINKKAFDKFKKEHGVVPQADNATP
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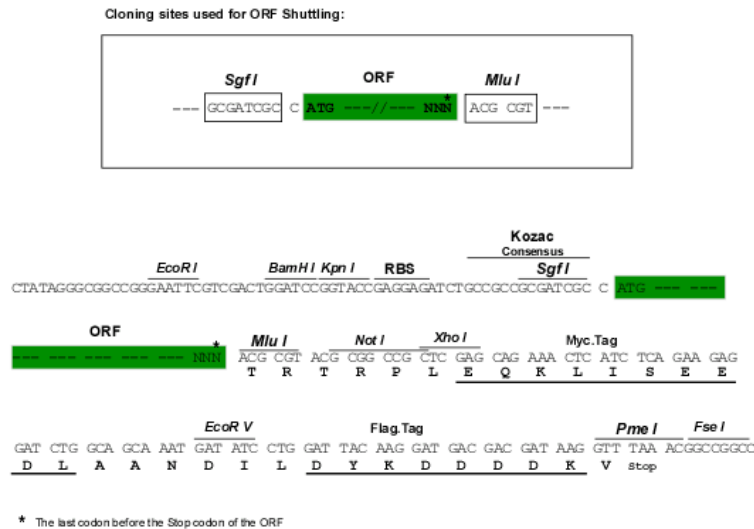
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1398_b10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001129887

ORF Size: 1704 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. [More info](#)

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:

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_001129887.2](#)

RefSeq ORF: 1707 bp

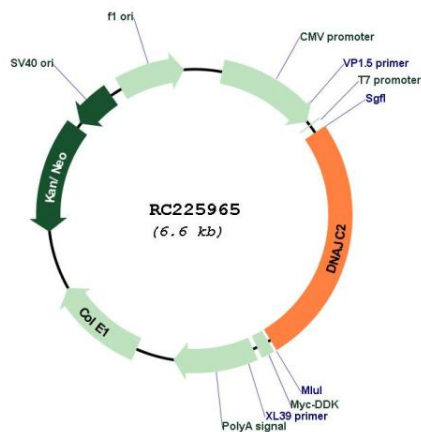
Locus ID: 27000

UniProt ID: [Q99543](#)

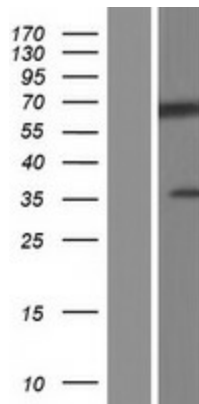
Cytogenetics: 7q22.1
MW: 65.7 kDa

Gene Summary: This gene is a member of the M-phase phosphoprotein (MPP) family. The gene encodes a phosphoprotein with a J domain and a Myb DNA-binding domain which localizes to both the nucleus and the cytosol. The protein is capable of forming a heterodimeric complex that associates with ribosomes, acting as a molecular chaperone for nascent polypeptide chains as they exit the ribosome. This protein was identified as a leukemia-associated antigen and expression of the gene is upregulated in leukemic blasts. Also, chromosomal aberrations involving this gene are associated with primary head and neck squamous cell tumors. This gene has a pseudogene on chromosome 6. Alternatively spliced variants which encode different protein isoforms have been described. [provided by RefSeq, Jul 2008]

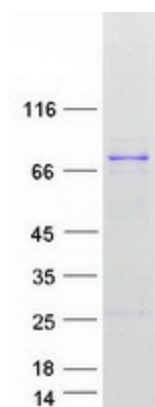
Product images:



Circular map for RC225965



Western blot validation of overexpression lysate (Cat# [LY427071]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225965 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNAJC2 protein (Cat# [TP325965]). The protein was produced from HEK293T cells transfected with DNAJC2 cDNA clone (Cat# RC225965) using MegaTran 2.0 (Cat# [TT210002]).