

Product datasheet for **RC213545**

DNAJC2 (NM_014377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJC2 (NM_014377) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC213545 representing NM_014377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCTGCTTCTGCCAAGCGCCGCGGACGGCCGGGACCGCCATCACCCACGCTCTGACCTCTGCCTCTA
 CACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTGAAGCTTTTGTAAAGAGAGAAACAGAAATGCTTC
 TGCTCTTTTTCAGGAAGTGGAGGATAAGAAAGAGTTATCCGAGGAATCAGAAAGTGAAGAATTGCAGTTG
 GAAGAGTTTCCATGCTGAAAACACTTGATCCCAAAGACTGGAAGAACCAAGATCATTATGCAGTTCTTG
 GACTTGGCCATGTGAGATACAAGGCTACACAGAGACAGATCAAAGCAGCTCATAAAGCAATGGTTTTAA
 ACATCACCCAGACAAACGGAAAGCAGCTGGTGAACCAATAAAGAAGGAGATAATGACTACTTCACTTGC
 ATAATAAGCTTATGAAATGTTATCTGATCCAGTGAAGAAGACGAGCATTTAACAGTGTAGATCCTACTT
 TTGATAACTCAGTTCCTTCTAAAAGTGAAGCAAAGGATAATTTCTCGAAGTGTTTACCCAGTGTTTGA
 AAGGAATTCAGATGGTCAAATAAAAAAATGTTCTAACTTGGTGATATGAATTCATCTTTGAAGAT
 GTAGATATATTTTATTCTTTCTGGTATAATTTTGATTCTTGAGAGAAATTTCTTATTTAGATGAAGAAG
 AAAAAAGAAAAAGCAGAATGTCGTGATGAGAGGAGATGGATTGAAAAGCAGAACAGAGCAACAAGAGCACA
 AAGAAAAAAGAAGAAATGAACAGAATAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATA
 AAAAAAGTTCAAGGAAGAAGAAAAAGCCAAGAAAGAAGCAGAAAAGAAAGCAAAAGCAGAAAGCTAAACGGA
 AGGAGCAAGAAGCTAAAGAAAAACAAAGACAAGCTGAATTAGAAGCTGCTCGTTAGCTAAGGAGAAAGA
 AGAGGAGGAAGTCAGACAGCAAGCATTGCTGGCAAAGAAGGAAAAAGATATCCAGAAAAAGCCATTAAG
 AAGGAAAGGCAAAAACCTCGAAACTCATGCAAGACCTGGAATCATTTTCTGATAATGAGGCAGAGCGGG
 TTAAAATGATGGAAGAAGTGAAAAACTTTGTGATCGGCTTGAAGTGGCAAGCTTACAGTGCTTGAATGA
 AACACTACATCATGCACAAAAGAAGTAGGAAAGGCTGCTTTGGAAAAACAGATAGAAGAAATAAATGAG
 CAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATGCGACAAGCATCTAAGAACACAGAGAAATCAA
 CTGGTGGAGTGGAATGGAAGTAAAAATTGGTCAGAAGATGATCTACAATTACTAATTAAGCTGTGAA
 TCTGTTCCCTGCTGGAACAAATCAAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTTCTCT
 GGAGTCAAAAGAACTGCCAAAGATGTTATTGGCAAAGCAAGAGTCTCCAAAACTTGACCCTCATCAA
 AAGATGACATAAATAAAAGGCATTTGATAAGTTCAAAAAGAACATGGAGTGGTACCTCAAGCAGACAA
 CGCAACGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCTTGGACAACAGAAAGCAGAA
 CTTTGGAAACAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGATGGGAAAAATAGCAGAAAGCGG
 TGCTTGGCAGGACAAAGAAGGACTGCATGAAACGATACAAGGAAGTGTGCGAGATGGTAAAGCAAGAA
 AGCTGCTCAAGAACAAGTGTGAATGCAAGTAGAGCCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213545 representing NM_014377
 Red=Cloning site Green=Tags(s)

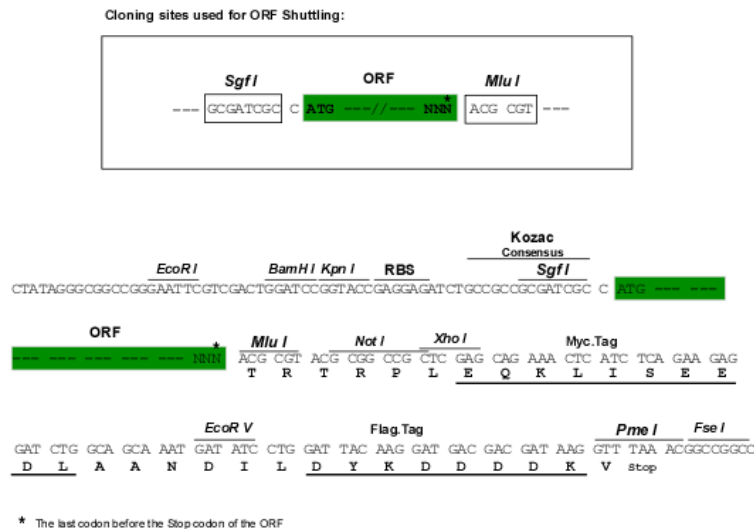
MLLLPSAADGRGTAITHALTSASTLCQVEPVGRWFEAFVKRRNRNASASFQELEDKKELSEESEDEELQL
 EEFPMLKTLDPKDWKNQDHYAVLGLGHVRYKATQRQIKAAHKAMVLKHHDPKRKAAGEPIKEGDNDYFTC
 ITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKDNF FEVFTPVFERNSRWSNKKNPVPLGDMNSSFED
 VDI FYFSWYNFDSWREFSYLDEEEKEKAECRDERRWIEKQNRATRAQRKKEEMNRIRTLVDNAYSCDPRI
 KKFKEEEKAKKEAEKKAKAEAKRKEQEAKQAELEAARLAKEKEEEEVRQALLAKKEKDIQKKA
 KERQKL RNSCKTWNHFS DNEAERVKMMEVEKLC DRLELASLQCLNETLT SCTKEVGKAALKEQIEEINE
 QIRKEKEEA EARMRQASKNTEKSTGGGNGSKNWSDDLQLLIKAVNLFPA GTNSRWEVIANYMNIHSSS
 GVKRTAKDVIGAKSLQKLDPHQKDDINKKAFDKFKEHGVVPQADNATP SERFEGPYTDFTPWTTEEQK
 LLEQALKTYPVNTPERWEKIAEAVPGR TKDKCMRYKELVEMVKAKKAAQEQVLNASRAKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8024_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014377

ORF Size: 1863 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_014377.3](#)

RefSeq Size: 2212 bp

RefSeq ORF: 1866 bp

Locus ID: 27000

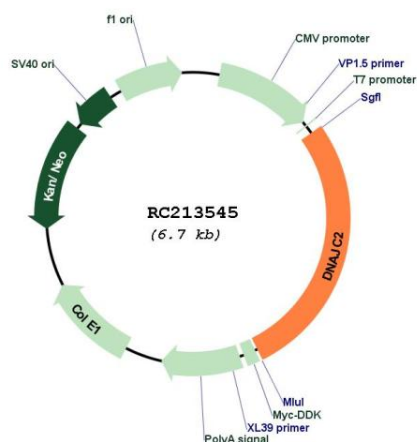
UniProt ID: [Q99543](#)

Cytogenetics: 7q22.1

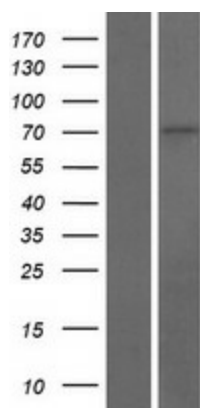
MW: 71.8 kDa

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 RC213545



Western blot validation of overexpression lysate (Cat# [LY415322]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213545 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).