

Product datasheet for **RC204154**

DNAJC7 (NM_003315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJC7 (NM_003315) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAJC7
Synonyms:	DJ11; DJC7; TPR2; TTC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204154 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTGCCGCGAGTGCATGTGGTAATGGCGGCGACCGAGCCGGAGCTGCTCGACGACCAAGAGG
 CGAAGAGGGAAGCAGAGACTTTCAAGGAACAAGGAAATGCATACTATGCCAAGAAAGATTACAATGAAGC
 TTATAATTATTATACAAAAGCCATAGATATGTGTCTAAAAATGCTAGCTATTATGGTAATCGAGCAGCC
 ACCTTGATGATGCTTGAAGGTTCCGGGAAGCTCTGGAGATGCACAACAGTCAGTGAGGTTGGATGACA
 GTTTTGTCCGGGACATCTACGAGAGGGCAAGTCCACCTCTCTCTGGGGAATGCCATGGCAGCATGTGC
 CAGCTTCCAGAGAGCCCTAGAAGTGGATCATAAAAATGCTCAGGCACAACAAGAGTTCAAGAATGCTAAT
 GCAGTCATGGAATATGAGAAAAAGCAGAAACAGATTTTGAGAAGCGAGATTTTCGGAAGGTTGTTTTCT
 GCATGGACCGTGCCTAGAATTTGCCCTGCCTGCCATCGCTTCAAATCCTCAAGGCAGAATGTTTAGC
 AATGCTGGGTCGTTATCCAGAAGCACAGTCTGTGGCTAGTGACATTCTACGAATGGATTCCACCAATGCA
 GATGCTCTGTATGACGAGGCTTTGCCTTTATTACGAAGATTGTATTGAGAAGGCAGTTCAGTTTTTCG
 TACAGGCTCTCAGGATGGCTCCTGACCAGGAGAAGGCCTGCATTGCCTGCAGAAATGCCAAAGCACTCAA
 AGCAAAGAAAGAAGATGGGAATAAAGCATTTAAGGAAGGAAATACAAACTAGCATATGAACTGTACACA
 GAAGCCCTGGGGATAGACCCCAACAATATAAAAAACAAATGCTAAACTCTACTGTAATCGGGGTACGGTTA
 ATTCGAAGCTTAGGAACTAGATGATGCAATAGAAGACTGCACAAATGCAGTGAAGCTTGATGACTTAA
 CATAAAAGCCTACTTGAGAAGAGCTCAGTGTTACATGGACACAGAACAGTATGAAGAAGCAGTACGAGAC
 TATGAAAAAGTATACCAGACAGAGAAAAACAAAAGAACACAACAGCTCCTAAAAAATGCCAGCTGGAAC
 TGAAGAAGAGTAAGAGGAAAGATTACTACAAGATTCTAGGAGTGGACAAGAATGCCTCTGAGGACGAGAT
 CAAGAAAAGCTTATCGGAAACGGGCTTGATGCACCATCCAGATCGGCATAGTGGAGCCAGTCTGAGGTT
 CAGAAGGAGGAGGAGAAGAAGTTCAAGGAAGTTGGAGAGGCTTTACTATCCTCTCTGATCCCAAGAAAA
 AGACTCGTATGACAGTGGACAGGACCTAGATGAGGAGGCATGAATATGGGTGATTTTATCCAAACAA
 TATCTTCAAGGCATTCTTTGGCGGCTCTGGCGCTTCAGCTTTGAAGCATCTGGTCCAGGGAATTTCTTT
 TTTCAATTTGGC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204154 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAAECDDVMAATEPELLDDQEAKREAEFTKEQGNAYYAKKDYNEAYNYTKAIDMCPKNASYYGNRAA
 TLMMLGRFREALGDAQSVRLDDSFVRGHLREGKCHLSLGNAMAACRSFQRALELDHKNAQAQEFKNAN
 AVMEYEKIAETDFEKRFKRVVFCMDRALEFAPACHRFKILKAECLAMLGRYPEAQSVDILRMDSTNA
 DALYVRGLCLYYEDCIEKAVQFFVQALRMAPDHEKACIACRNAKALKAKKEDGNKAFKEGNYKLAYELYT
 EALGIDPNNIKTNAKLYCNRGTVNSKLRKLDIAEDCTNAVKLDITYIKAYLRRACQYMDTEQYEEAVRD
 YEKVYQTEKTKHKQLLKNQLELKKSKRKDYKILGVDKNASEDEIKKAYRKRALMHPDRHSGASAEV
 QKEEEKKFKVEGFAFTILSDPKKKTRYDSGQDLDEEGMNMGDFDPNNIFKAFFGGPGGFSFEASGPGNFF
 FQFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6568_g11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003315

ORF Size: 1485 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.

RefSeq: [NM_003315.4](#)

RefSeq Size: 2096 bp

RefSeq ORF: 1485 bp

Locus ID: 7266

UniProt ID: [Q99615](#)

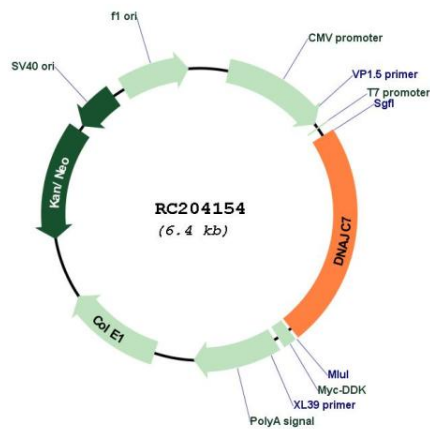
Cytogenetics: 17q21.2

Domains: TPR, DnaJ

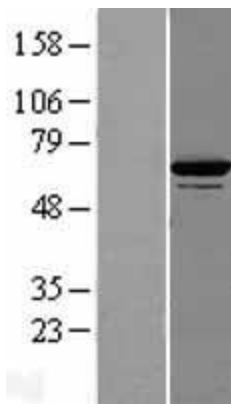
MW: 56.4 kDa

Gene Summary: This gene encodes a member of the DNAJ heat shock protein 40 family of proteins that is characterized by two N-terminal tetratricopeptide repeat domains and a C-terminal DNAJ domain. This protein binds the chaperone proteins heat shock proteins 70 and 90 in an ATP-dependent manner and may function as a co-chaperone. Pseudogenes of this gene are found on chromosomes 1 and 6. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2009]

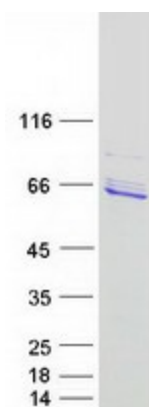
Product images:



Circular map for RC204154



Western blot validation of overexpression lysate (Cat# [LY418777]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204154 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNAJC7 protein (Cat# [TP304154]). The protein was produced from HEK293T cells transfected with DNAJC7 cDNA clone (Cat# RC204154) using MegaTran 2.0 (Cat# [TT210002]).