

Product datasheet for RC201628

HDJ2 (DNAJA1) (NM_001539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDJ2 (DNAJA1) (NM_001539) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDJ2
Synonyms:	DJ-2; DjA1; hDJ-2; HDJ2; HSDJ; HSJ-2; HSJ2; HSPF4; NEDD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201628 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTGAAAGAAACAACCTTACTACGATGTTTTGGGGGTCAAACCAATGCTACTCAGGAAGAATTGAAAA
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 GATTTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGAATTATATGACAAAGGAGGAGAACAG
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 GAAGTGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACGGC
 GCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCCAGAGGTGGTGTTCAGTGTGAGACCTC
 T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
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Protein Sequence: >RC201628 protein sequence
 Red=Cloning site Green=Tags(s)

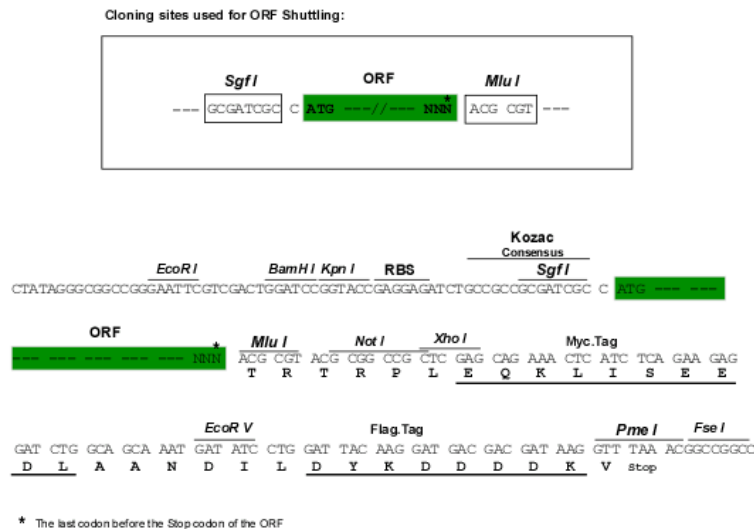
MVKETTYDVLGVKNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQ
 AIKEGGAGGGFGSPMDIFDMFFGGGGRMQRRRGKNNVHQLSVTLEDLYNGATRKLALQKNVICDKCEGR
 GGKKGAVECCPNCRGTMQIRIHQIGPMVQIQSVCMQCQGHGERISPKDRCKSCNGRKIVREKKILEV
 HIDKGMKDQKQITFHGEQDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTL
 DNRTIVITSHPGQIVKHGDIKCVLNEGMPYRRPYEKGRLIIIEFKVNFPENGFLSPDKLSLLEKLLPERK
 EVEETDEMDQVELVDFDPNQERRRHYNGEAYEDDEHHPRGGVQCQTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6014_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001539

ORF Size: 1191 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_001539.1](#)

RefSeq Size: 1538 bp

RefSeq ORF: 1194 bp

Locus ID: 3301

UniProt ID: [P31689](#)

Cytogenetics: 9p21.1

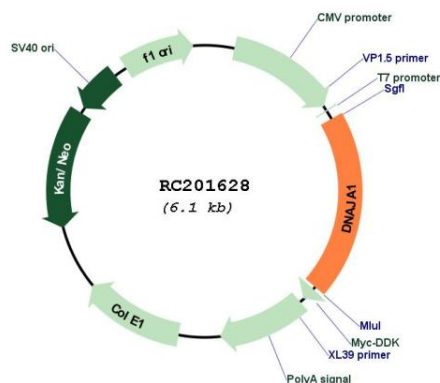
Domains: DnaJ_CXXCXGXG, DnaJ, DnaJ_C

Protein Families: Druggable Genome

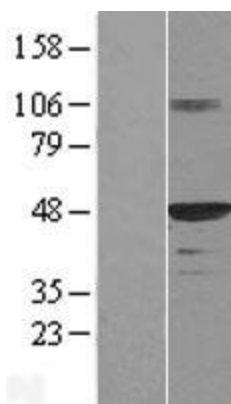
MW: 44.9 kDa

Gene Summary: This gene encodes a member of the DnaJ family of proteins, which act as heat shock protein 70 cochaperones. Heat shock proteins facilitate protein folding, trafficking, prevention of aggregation, and proteolytic degradation. Members of this family are characterized by a highly conserved N-terminal J domain, a glycine/phenylalanine-rich region, four CxxCxGxG zinc finger repeats, and a C-terminal substrate-binding domain. The J domain mediates the interaction with heat shock protein 70 to recruit substrates and regulate ATP hydrolysis activity. In humans, this gene has been implicated in positive regulation of virus replication through co-option by the influenza A virus. Several pseudogenes of this gene are found on other chromosomes. [provided by RefSeq, Sep 2015]

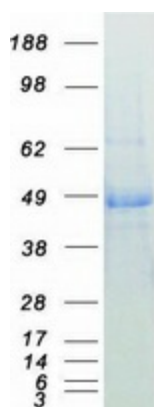
Product images:



Circular map for RC201628



Western blot validation of overexpression lysate (Cat# [LY400586]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201628 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNAJA1 protein (Cat# [TP301628]). The protein was produced from HEK293T cells transfected with DNAJA1 cDNA clone (Cat# RC201628) using MegaTran 2.0 (Cat# [TT210002]).