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Product datasheet for RC204240

TID1 (DNAJA3) (NM_005147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TID1 (DNAJA3) (NM_005147) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TID1
Synonyms:	HCA57; hTID-1; TID1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC204240 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCGCGGTGCTCCACACGCTGGTTGCTGGTGGTTGTGGGGACCCCGCGGCTGCCGGCTATATCGG
GTAGAGGGGCCCGGCCGCCCAGGGAGGGCGTGGTGGGGGCATGGCTGAGCCGCAAGCTGAGCGTCCCCGC
CTTTGCGTCTTCCCTGACCTCTTGCGGCCCCCGAGCGCTGCTGACATTGAGACCTGGTGTCAGCCTCACA
GGAACAAAACATTACCCTTTCATTTGTACTGCCTCCTTCCACACGAGTGCCCCTTTGGCCAAAGAAGATT
ATTATCAGATATTAGGAGTGCCTCGAAATGCCAGCCAGAAAGAGATCAAGAAAGCCTATTATCAGCTTGC
CAAGAAGTATCACCCTGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTCTCCCAGCTGGCAGAA
GCCTATGAGGTTTTGAGTGATGAGGTGAAGAGGAAGCAGTACGATGCCTACGGCTCTGCAGGCTTCGATC
CTGGGGCCAGCGGCTCCCAGCATAGCTACTGGAAGGGAGGCCCCACTGTGGACCCCGAGGAGCTGTTCAG
GAAGATCTTTGGCGAGTTCTCATCCTCTTCATTTGGAGATTTCCAGACCGTGTTTGATCAGCCTCAGGAA
TACTTCATGGAGTTGACATTCAATCAAGCTGCAAAGGGGGTCAACAAGGAGTTCACCGTGAACATCATGG
ACACGTGTGAGCGCTGCAACGGCAAGGGGAACGAGCCCGGCACCAAGGTGCAGCATTGCCACTACTGTGG
CGGCTCCGGCATGGAAACCATCAACACAGGCCCTTTTGTGATGCGTTCCACGTGTAGGAGATGTGGTGGC
CGCGGCTCCATCATCATATCGCCCTGTGTGGTCTGCAGGGGAGCAGGACAAGCCAAGCAGAAAAAGCGAG
TGATGATCCCTGTGCCTGCAGGAGTCGAGGATGGCCAGACCGTGAGGATGCCTGTGGGAAAAAGGGAAAT
TTTCATTACGTTCAGGGTGCAGAAAAGCCCTGTGTTCCGGAGGGACGGCGCAGACATCCACTCCGACCTC
TTTATTTCTATAGCTCAGGCTCTTCTTGGGGGAACAGCCAGAGCCCAGGGCCTGTACGAGACGATCAACG
TGACGATCCCCCCTGGGACTCAGACAGACCAGAAGATTCGGATGGGTGGGAAAGGCATCCCCCGGATTAA
CAGCTACGGCTACGGAGACCACTACATCCACATCAAGATACGAGTTCCAAAGAGGCTAACGAGCCGGCAG
CAGAGCCTGATCCTGAGCTACGCCGAGGACGAGACAGATGTGGAGGGGACGGTGAACGGCGTCACCCTCA
CCAGCTCTGGTGGCAGCACCATGGATAGCTCCGCAGGAAGCAAGGCTAGGCGTGAGGCTGGGGAGGACGA
GGAGGGATTCCTTTCCAAACTTAAGAAAATGTTTACCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204240 protein sequence
Red=Cloning site Green=Tags(s)

MAARCSTRWLLVVVGTPRLPAISGRGARPPREGVVGAWLSRKLSVPAFASSLTSCGPRALLTLRPGVSLT
GTKHYPFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAE
AYEVLSDEVKRKQYDAYGSAGFDPGASGSQHSYWKGGPTVDPEELFRKIFGEFSSSSFGDFQTVFDQPQE
YFMELTFNQAAKGVNKEFTVNIMDTCERCNGKGNEPGTKVQHCHYCGGSGMETINTGPFVMRSTCRRCGG
RGSIIISPCVVCRGAGQAKQKKRVMIPVPAGVEDGQTVRMPVGKREIFITFRVQKSPVFRRDGADIHSDL
FISIAQALLGGTARAQGLYETINVTIPPGTQTDQKIRMGGKGIPRINSYGYGDHYIHIKIRVPKRLTSRQ
QSLILSYAEDETDVEGTVNGVTLTSSGGSTMDSSAGSKARREAGEDEEGFLSKLKKMFTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6231_c07.zip

Restriction Sites: SgfI-MluI

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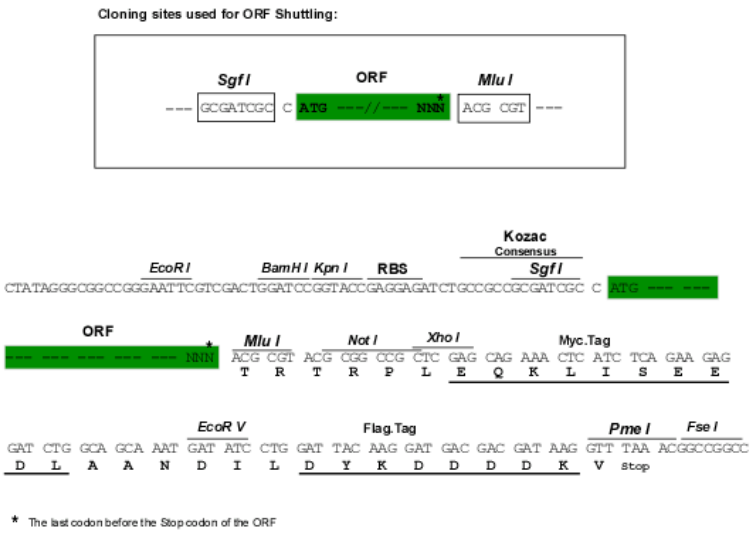
Cloning Scheme:



ACCN: NM_005147

ORF Size: 1440 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_005147.3, NP_005138.2

RefSeq Size: 2780 bp

RefSeq ORF: 1443 bp

Locus ID: 9093

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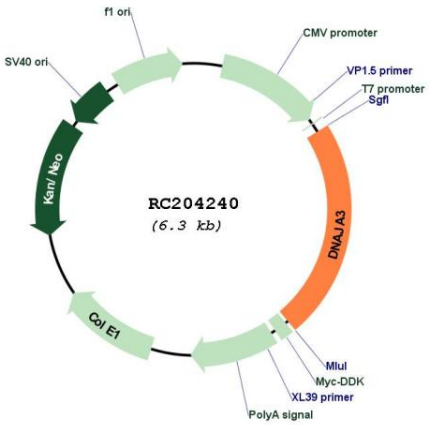
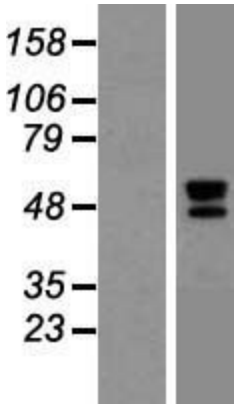
UniProt ID:	Q96EY1
Cytogenetics:	16p13.3
Domains:	DnaJ_CXXCXGXG, DnaJ, DnaJ_C
MW:	52.5 kDa
Gene Summary:	This gene encodes a member of the DNAJ/Hsp40 protein family. DNAJ/Hsp40 proteins stimulate the ATPase activity of Hsp70 chaperones and play critical roles in protein folding, degradation, and multimeric complex assembly. The encoded protein is localized to mitochondria and mediates several cellular processes including proliferation, survival and apoptotic signal transduction. The encoded protein also plays a critical role in tumor suppression through interactions with oncogenic proteins including ErbB2 and the p53 tumor suppressor protein. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC204240



Western blot validation of overexpression lysate (Cat# [LY417489]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204240 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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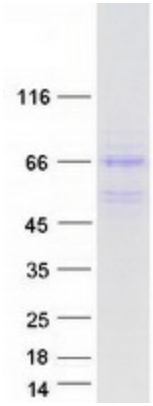

Coomassie blue staining of purified DNAJA3 protein (Cat# [TP304240]). The protein was produced from HEK293T cells transfected with DNAJA3 cDNA clone (Cat# RC204240) using MegaTran 2.0 (Cat# [TT210002]).

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