

Product datasheet for **RC225749**

TID1 (DNAJA3) (NM_001135110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TID1 (DNAJA3) (NM_001135110) 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:

>RC225749 representing NM_001135110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCGCGGTGCTCCACACGCTGGTTGCTGGTGGTTGTGGGACCCCGGGCTGCCGGCTATATCGG
 GTAGAGGGGCCCGCCCGCCAGGGAGGGCGTGGTGGGGCATGGCTGAGCCGCAAGCTGAGCGTCCCGC
 CTTTGCCTCTTCCCTGACCTCTTGC GGCCCGAGCGCTGCTGACATTGAGACCTGGTGTAGCCTTACA
 GGAACAAAACATAACCCTTTCATTTGACTGCCTCCTTCCACACGAGTGCCTTTGGCCAAAGAAGATT
 ATTATCAGATATTAGGAGTGCCTCGAAATGCCAGCCAGAAAGAGATCAAGAAAGCCTATTATCAGCTTGC
 CAAGAAGTATCACCTGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTCTCCAGCTGGCAGAA
 GCCTATGAGGTTTGGAGTATGAGGTGAAGAGGAAGCAGTACGATGCCTACGGCTCTGCAGGCTTCGATC
 CTGGGGCCAGCGCTCCAGCATAGCTACTGGAAGGGAGGCCACTGTGGACCCCGAGGAGCTGTTAG
 GAAGATCTTTGGCGATTCTCATCTCTCATTGGAGATTTCCAGACCGTGTGGATCAGCCTCAGGAA
 TACTTCATGGAGTTGACATCAATCAAGCTGCAAAGGGGGTCAACAAGGAGTTACCGTGAACATCATGG
 ACACGTGTGAGCGCTGCAACGGCAAGGGGAACGAGCCCGCACCAAGGTGCAGCATTGCCACTACTGTGG
 CGGCTCCGGCATGGAACCATCAACACAGGCCCTTTTGTGATGCGTTCCACGTGTAGGAGATGTGGTGGC
 CGCGGCTCCATCATATCGCCCTGTGTGGTCTGCAGGGGAGCAGGACAAGCCAAGCAGAAAAAGCGAG
 TGATGATCCCTGTGCCTGAGGAGTCGAGGATGGCCAGACCGTGAGGATGCCTGTGGAAAAAGGAAAT
 TTTTATTACGTTACGGGTGCAGAAAAGCCCTGTGTTCCGAGGGACGGCGCAGACATCCACTCCGACCTC
 TTTATTTCTATAGCTCAGGCTCTTTGGGGGTACAGCCAGAGCCAGGGCTGTACGAGACGATCAACG
 TGACGATCCCCCTGGGACTCAGACAGACCAGAAAGATTCCGATGGGTGGGAAAGGCATCCCCGGATTAA
 CAGCTACGGCTACGGAGACCACTACATCCACATCAAGATACGAGTTCCAAGAGGCTAACGAGCCGGCAG
 CAGAGCCTGATCCTGAGCTACGCCGAGGACGAGACAGATGTGGAGGGGACGGTGAACGGCGTCACCCTCA
 CCAGCTCTGGA AAAAGATCCACTGGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225749 representing NM_001135110
 Red=Cloning site Green=Tags(s)

MAARCSTRWLLVVVGTPLPAISGRGARPPREGVVGAWLSRKLSPAFASLTS CGPRALLTLRPGVSLT
 GTKHNPFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAE
 AYEVLSDVEVKKRQYDAYGSAGFDPGASGSQHSYWKGGPTVDPEELFRKIFGEFSSSFQDFQTVFDQPQE
 YFMELTFNQAAGVKNKEFTVNIIMDTCERCNGKGNPGTKVQHCHYCGSGMETINTGPFVMRSTCRRCGG
 RGSIIISPCVVCRGAGQAKQKRVMI PVPA GVEDGQTVRMPVVGKREIFITFRVQKSPVFRRDGADIHSDL
 FISIAQALLGGTARAQGLYETINVTIPPQTQDQKIRMGGKGI PRINSYGYGDHYIHIKIRVPKRLTSRQ
 QSLILSYAEDETDVEGTVNGVTLTSSGKRSTGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_a08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135110

ORF Size: 1359 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_001135110.3](#)

RefSeq ORF: 1362 bp

Locus ID: 9093

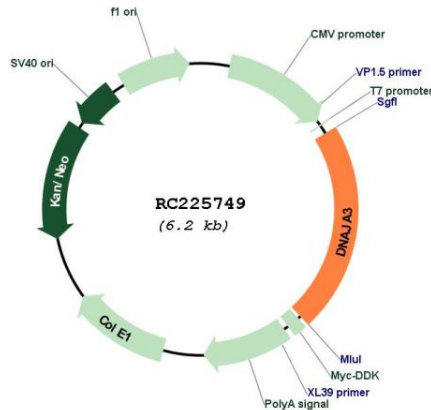
UniProt ID: [Q96EY1](#)

Cytogenetics: 16p13.3

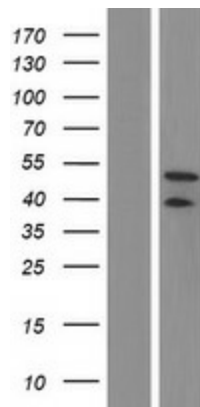
MW: 49.4 kDa

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 RC225749



Western blot validation of overexpression lysate (Cat# [LY427556]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225749 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).