

Product datasheet for **RC236844**

Hsp40 (DNAJB1) (NM_001300914) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsp40 (DNAJB1) (NM_001300914) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DNAJB1
Synonyms: Hdj1; Hsp40; HSPF1; RSPH16B; Sis1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236844 representing NM_001300914
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGCTGAGTTCTTCGGTGGCAGAAATCCCTTTGACACCTTTTTGGGCAGCGGAACGGGGAGGAAG
 GCATGGACATTGATGACCCATTCTCTGGCTTCCCTATGGGCATGGGTGGCTTACCAACGTGAACCTTGG
 CCGCTCCCGCTCTGCCAAGAGCCCGCCGAAAGAAGCAAGATCCCCAGTCACCCACGACCTTCGAGTC
 TCCCTTGAAGAGATCTACAGCGGCTGTACCAAGAAGATGAAAATCTCCCAAGCGGCTAAACCCGACG
 GAAAGAGCATTGAAACGAAGACAAAATATTGACCATCGAAGTGAAGAAGGGGTGAAAGAAGGAACCAA
 AATCACTTTCCCAAGGAAGGAGACCAGACCTCCAACAACATTCCAGCTGATATCGTCTTTGTTTTAAAG
 GACAAGCCCCACAATATCTTTAAGAGAGATGGCTCTGATGTCATTTATCCTGCCAGGATCAGCCTCCGGG
 AGGCTCTGTGGCTGCACAGTGAACGTCCCCTCTGGACGGCAGGACGATACCCGTCGTATTCAAAGA
 TGTTATCAGGCCCTGGCATGCGGCGAAAAGTTCTGGAGAAGGCCCTCCCCCTCCCAAAACACCCGAGAAA
 CGTGGGGACCTCATTATTGAGTTTGAAGTATCTTCCCGAAAGGATTCCCAGACATCAAGAACCGTAC
 TTGAGCAGTTCTTCCAATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236844 representing NM_001300914
Red=Cloning site Green=Tags(s)

MFAEFGGRNPFDTFFGQRNGEEMDIDDPFSGFPMGMGGFTNVNFGRSRSAQEPARKKQDPPVTHDLRV
 SLEEIYSGCTKKMKISHKRLNPDGKSIRNEDKILTIEVKKGWKEGKITFPKEGDQTSNNIPADIVFLK
 DKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRITIPVVKDVIKIRPGMRRKVPGEGLPLPKTPEK
 RGDLIIEFEVIFPERIPQTSRTVLEQVLPI

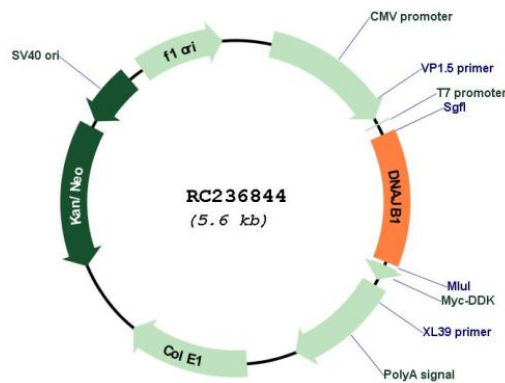
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300914
ORF Size: 720 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:	<ol style="list-style-type: none">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_001300914.1 , NP_001287843.1
RefSeq Size:	2270 bp
RefSeq ORF:	723 bp
Locus ID:	3337
UniProt ID:	P25685
Cytogenetics:	19p13.12
MW:	27.5 kDa
Gene Summary:	This gene encodes a member of the DnaJ or Hsp40 (heat shock protein 40 kD) family of proteins. DNAJ family members are characterized by a highly conserved amino acid stretch called the 'J-domain' and function as one of the two major classes of molecular chaperones involved in a wide range of cellular events, such as protein folding and oligomeric protein complex assembly. The encoded protein is a molecular chaperone that stimulates the ATPase activity of Hsp70 heat-shock proteins in order to promote protein folding and prevent misfolded protein aggregation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]