

## Product datasheet for SC116273

### Hsp40 (DNAJB1) (NM\_006145) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp40 (DNAJB1) (NM_006145) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hsp40
Synonyms:	Hdj1; Hsp40; HSPF1; RSPH16B; Sis1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116273 sequence for NM_006145 edited (data generated by NextGen Sequencing)

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ATGGGTAAGACTACTACGACGTTGGCCTGGCCCGCGCGCTCGGACGAGGAGATC
AAGCGGGCTACCGCCGACAGGCGCTGCGCTACCACCCGACAAGAACAAGGAGCCCGGC
GCCGAGGAGAAGTTCAAGGAGATCGCTGAGGCCTACGACGTGCTCAGCGACCCGCAAG
CGCGAGATCTTCGACCGCTACGGGGAGGAAGGCCTAAAGGGGAGTGGCCCAAGTGGCGGT
AGCGGGGGTGGTCCAATGGTACCTCTTCAGCTACACATTCCATGGAGACCCTCATGCC
ATGTTTGTGAGTTCTTCGGTGGCAGAAATCCCTTTGACACCTTTTTGGGCAGCGGAAC
GGGGAGGAAGGCATGGACATTGATGACCCATTCTCTGGCTTCCCTATGGGCATGGGTGGC
TTCACCAACGTGAACTTTGGCCGCTCCCGCTCTGCCAAGAGCCCGCCGAAAGAAGCAA
GATCCCCCAGTACCCACGACCTTCGAGTCTCCCTTGAAGAGATCTACAGCGGCTGTACC
AAGAAGATGAAAAATCTCCACAAGCGGCTAAACCCGACGAAAGAGCATTTCGAAACGAA
GACAAAATATTGACCATCGAAGTGAAGAAGGGGTGAAAGAAGGAACAAAATCACTTTC
CCCAAGGAAGGAGACCAGACCTCCAACAACATTCCAGCTGATATCGTCTTTGTTTAAAG
GACAAGCCCCACAATATCTTTAAGAGAGATGGCTCTGATGTCATTTATCCTGCCAGGATC
AGCCTCCGGGAGGCTCTGTGTGGCTGCACAGTGAACGTCCCCACTCTGGACGGCAGGACG
ATACCCGTCGTATTCAAAGATGTTATCAGGCCTGGCATGCGGCGAAAAGTTCTTGAGAA
GGCCTCCCCCTCCCCAAAACACCCGAGAAACGTGGGACCTCATTATTGAGTTTGAAGTG
ATCTTCCCGAAAGGATTCCCCAGACATCAAGAACCCTACTTGAGCAGGTTCTTCCAATA
TAG

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Clone variation with respect to NM\_006145.1



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006145 unedited  
 AGACAGAATTGTATACGACTTACTATAGGCGGCCGCAATTCGCACGAGGTAGAGTCCGG  
 GACTGGTCGGCGCGGAGCCGGGGACGGCGACAGCGGTTCGGCGGGCCGACGAGGGGG  
 TCATGGGTAAAGACTACTACCAGACGTTGGGCCTGGCCCGCGCGCTCGGACGAGGAGA  
 TCAAGCGGGCCTACCGCCGACGCGCTGCGCTACCACCCGGACAAGAACAAGGAGCCCG  
 GCGCCGAGGAGAAGTTCAAGGAGATCGCTGAGGCCTACGACGTGCTCAGCGACCCGCGCA  
 AGCGCGAGATCTTCGACCCTACGGGGAGGAAGGCCTAAAGGGGAGTGGCCCCAGTGGCG  
 GTAGCGCGGTGGTCCCAATGGTACCTCTTTACGCTACACATTCCATGGAGACCCTCATG  
 CCATGTTTGCTGAGTTCTTCGGTGGCAGAAATCCCTTTGACACCTTTTTTGGGCAGCGGA  
 ACGGGGAGGAAGGCATGGACATTGATGACCCATTCTCTGGCTTCCTATGGGCATGGGTG  
 GCTTACCAACGTGAACCTTTGGCCGCTCCCGCTCTGCCAAGAGCCCGCCGAAAGAAGC  
 AAGATCCCCCAGTCACCCACGACCTTCGAGTCTCCCTTGAAGAGATCTACAGCGGTGTA  
 CCAAGAAGATGAAAATCTCCACAAGCGGCTAAACCCGACGAAAGAGCATTGAAACG  
 AAGACAAAATATTGACCATCGAAGTGAAGAAGGGGTGAAAGAANGAACAAAATCACTT  
 TCCCCAAGGAAGGAGACCAGACCTCCAACAACATTCCAGCTGATATCGTCTTTGTTTTAA  
 AGGACAAGCCCCACATATCTTTAGAGAGATGGCTCTGATGTCTTTATCCTGCCAGGATCA  
 GCCTCCGGGAGCTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006145 unedited  
 GAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGTTTAGCATCAGTCTTTAATGCTGTGCACT  
 TCATTGACTAGTCACACACTTTGGTCTCATGTTGGCAGTGGCACTTACAATGAGTCTAA  
 AGGTCTGAGCACTGGACTGGCCTCCAGGGAACAGACATTTGTTCCAACCTCCCTTCCCTC  
 CCCAAGATTTCTCAGAATTCATTATGGCCCTATACAGAGAGCACTGGCTGCCGGGGAC  
 AGGTTTTGAGTGTACACCAACTATACATGGAATTATAAAAACATATTTACAGACGTTCCA  
 CAGTGCTCCTGTAATCAGAAGCAAAGACCTTTTATCAAAGGGATTGTATCTAGGGCTG  
 TGCAAAATTCAAAAGGATCAGATCCCTTTGAAAGAGTCCATAGTCCATGAAACAAAAAT  
 ACCCTGGCCACTGGTAAGCCCCACGTGTGCCAAGATTGCCTTACAGAAATGTAAGAGTG  
 TGACCCACAAAGTGAGGACATTCAGCTTACTGGAGCCAGAGGTGAGGAAAGGCCCTTG  
 CTGAGGCCACGCTCCAGACCATCAAGGGAAGAGGTGGTTGCACTTGCTGGGATCACTCA  
 CTTGAAGCGTGTCCCTTGGTCTGCTGGAACAACAGGGATTGTTGGTGACCCACCCCG  
 CAGGTCTTCCGGAATCTTTAAGGTTTACACTTGGCACGGCACAAGTAAAAACACCTTCC  
 CAGAGATCAACCACTTGGCGAACAATTCCGAACAACGCCATCCTCGTCCCCCCTTT  
 ACAAGGAGGGGGGCAATGGGGTCTGGCAATCCCCCTCGCCGCGTGCCTTTTTTATCT  
 TCCCTATATCCAACGACACCCCGCCTCATGCCCCCGCGGGCCGCCATCCTACATCAT  
 GGCAGGTAATGGTGTGGGTTTGTGTAACCTTTCGGGAGGCGCGTAACACCATGGGGCCA  
 AAGCGATTGCCCTTTGCGCTAGCCATCCACGTTAGCATTAAATTATCACAACCCCGTTA  
 TCTGCGCCACCAACAAGGCATTGCGCTTCAATACATTTCCCCACCCCTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006145

**Insert Size:**

2290 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_006145.1](#), [NP\\_006136.1](#)

**RefSeq Size:** 2233 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 3337

**UniProt ID:** [P25685](#)

**Cytogenetics:** 19p13.12

**Domains:** DnaJ, DnaJ\_C

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).