

Product datasheet for **RG201762**

Hsp40 (DNAJB1) (NM_006145) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp40 (DNAJB1) (NM_006145) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hsp40
Synonyms:	Hdj1; Hsp40; HSPF1; RSPH16B; Sis1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201762 representing NM_006145 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTAAAGACTACTACCAGACGTTGGGCCTGGCCCGCGCGCGTGGACGAGGAGATCAAGCGGGCCT
ACCGCCGCCAGGCGCTGCGCTACCACCCGGACAAGAACAAGGAGCCCGCGCCGAGGAGAAGTTC AAGGA
GATCGCTGAGGCCTACGACGTGCTCAGCGACCCGCGCAAGCGCGAGATCTTCGACCGCTACGGGAGGAA
GGCCTAAAGGGGAGTGGCCCCAGTGGCGGTAGCGGGTGGTGC AATGGTACCTTTTCAGCTACACAT
TCCATGGAGACCCTCATGCCATGTTTGCTGAGTCTTCGGTGGCAGAAATCCCTTTGACACCTTTTTTGG
GCAGCGGAACGGGAGGAAGGCATGGACATTGATGACCCATTCTCTGGCTTCCCTATGGGCATGGGTGGC
TTCACCAACGTGAACTTTGGCCGCTCCCGCTCTGCCCAAGAGCCCGCCGAAAGAAGCAAGATCCCCCAG
TCACCCACGACCTTCGAGTCTCCCTTGAAGAGATCTACAGCGGCTGTACCAAGAAGATGAAAATCTCCCA
CAAGCGGCTAAACCCGACGGAAAGAGCATTGAAACGAAGACAAAATATTGACCATCGAAGTGAAGAAG
GGGTGAAAGAAGGAACCAAAATCACTTTCCCAAGGAAGGAGACCAGACCTCCAACAACATTCCAGCTG
ATATCGTCTTTGTTTTAAAGGACAAGCCCCACAATATCTTTAAGAGAGATGGCTCTGATGTCAATTTATCC
TGCCAGGATCAGCCTCCGGGAGGCTCTGTGTGGCTGCACAGTGAACGTCCCCTCTGGACGGCAGGACG
ATACCCGTCGTATTCAAAGATGTTATCAGGCCTGGCATGCGCGAAAAGTTCTTGAGAAGGCCTCCCC
TCCCCAAAACCCGAGAAACGTGGGGACCTATTATTGAGTTTGAAGTGATCTTCCCCGAAAGGATTCC
CCAGACATCAAGAACCGTACTTGAGCAGGTTCTTCCAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201762 representing NM_006145
 Red=Cloning site Green=Tags(s)

MGKDYYQTLGLARGASDEEIKRAYRRQALRYHPDKNKEPGAEEKFKEIAEAYDVLSDPRKREIFDRYGEE
 GLKSGSPSGGSGGGANGTSFSYTFHGDPHAMFAEFFGGRNPFDTFFGQRNGEEMDIDDPFSGFPMMGG
 FTNVNFRSRSQAQEPARKKQDPPVTHDLRVSLEEIYSGCTKKMKISHKRLNPDGKSIRNEDKILTIIEVKK
 GWKEGTKITFPKEGDQTSNNIPADIVFVLKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRT
 IPVVFKDVIRPGMRRKVPGEGLPLPKTPEKRGDLIIIEFEVIFPERIPQTSRTVLEQVLP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006145

ORF Size: 1020 bp

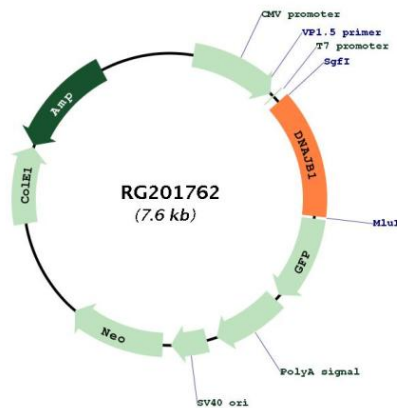
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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](#)

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:	<u>NM_006145.3</u>
RefSeq Size:	2233 bp
RefSeq ORF:	1023 bp
Locus ID:	3337
UniProt ID:	<u>P25685</u>
Cytogenetics:	19p13.12
Domains:	Dnaj, Dnaj_C
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG201762