

## Product datasheet for **RG236844**

### 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:	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:	>RG236844 representing NM_001300914. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTGCTGAGTTCTTCGGTGGCAGAAATCCCTTTGACACCTTTTTGGGCAGCGGAACGGGGAGGAA
GGCATGGACATTGATGACCCATTCTCTGGCTTCCCTATGGGCATGGGTGGCTTACCAACGTGAACTTT
GGCCGCTCCCGCTCTGCCAAGAGCCCGCCGAAAGAAGCAAGATCCCCAGTCACCCACGACCTTCGA
GTCTCCCTTGAAGAGATCTACAGCGGCTGTACCAAGAAGATGAAAATCTCCACAAGCGGCTAAACCCC
GACGAAAGAGCATTGAAACGAAGACAAAATATTGACCATCGAAGTGAAGAAGGGGTGAAAGAAGGA
ACCAAAATCACTTTCCCAAGGAAGGAGACCAGACCTCCAACAACATTCCAGCTGATATCGTCTTTGTT
TTAAAGGACAAGCCCACAATATCTTTAAGAGAGATGGCTCTGATGTCATTTATCCTGCCAGGATCAGC
CTCCGGGAGGCTCTGTGTGGCTGCACAGTGAACGTCCCCACTCTGGACGGCAGGACGATACCCGTCGTA
TTCAAAGATGTTATCAGGCCTGGCATGCGGCGAAAAGTTCTGGAGAAGGCCTCCCCCTCCCCAAAACA
CCCAGAAACGTGGGACCTCATTATTGAGTTTGAAGTGATCTTCCCGAAAGGATTCCCGACATCA
AGAACCGTACTTGAGCAGGTTCTTCCAATA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



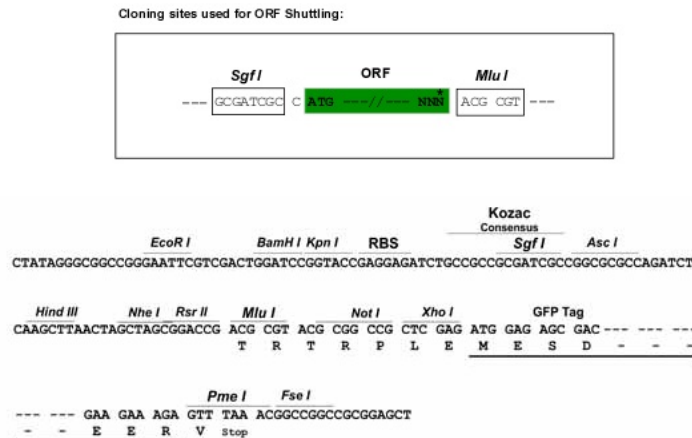
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG236844  
 Blue=ORF Red=Cloning site Green=Tag(s)

MFAEFFGGRNPFDTFFGQRNGEEMDIDDPFSGFPMGMGGFTNVNFGRSRSAQEPARKKQDPPVTHDLR  
 VSLEEIYSGTKKMKISHKRLNPDGKSIRNEDKILTIEVKKGWKEGTKITFPKEGDQTSNNIPADIVFV  
 LKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRTIPVVFKDVIIRPGMRRKVPGEGLPLPKT  
 PEKRGDLIIIEFEVIFPERIPQTSRTVLEQVLPI  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

**RefSeq:** [NM\\_001300914.1](#), [NP\\_001287843.1](#)

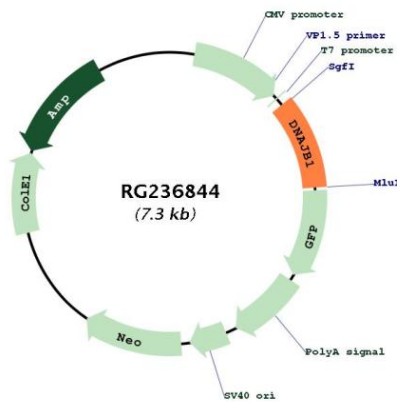
**RefSeq Size:** 2270 bp

**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]

**Product images:**



Circular map for RG236844