

## Product datasheet for **SC307976**

### Hsp60 (HSPD1) (NM\_199440) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp60 (HSPD1) (NM_199440) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSPD1
Synonyms:	CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HuCHA60; SPG13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC307976 representing NM\_199440.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTTCGGTTACCCACAGTCTTTCGCCAGATGAGACCCGGTGTCCAGGGTACTGGCTCCTCATCTCACT
CGGGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCCCGAGCCTTAATGCTTCAAGGTGTAGACCTT
TTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTGATTATTGAGCAGAGTTGGGGA
AGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTAAAAGATAAAACAAAAAC
ATTGGAGCTAACTTGTTCAGATGTTGCCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACT
GCTACTGTACTGGCAGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGTGCTAATCCAGTG
GAAATCAGGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACTAAAAAGCAGTCTAAACCT
GTGACCACCCCTGAAGAAATGCACAGTTGCTACGATTTCTGCAAACGGAGACAAGAAATTTGGCAAT
ATCATCTCTGATGCAATGAAAAAGTTGGAAGAAAGGGTGTATCACAGTAAAGGATGGAAAAACACTG
AATGATGAATTAGAAATTATTGAAGCATGAAGTTTGATCGAGGCTATATTTCTCCATACCTTTATTAAT
ACATCAAAGGTGAGAAATGTGAATCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAGT
ATCCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAA
GATGTTGATGGAGAAGCTCTAAGTACACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCA
GTCAAGGCTCCAGGGTTTGGTGACAATAGAAAAGAACAGCTTAAAGATATGGCTATTGCTACTGGTGGT
GCAGTGTTTGGAGAAGAGGGATTGACCCGTAATCTTGAAGACGTTTCAGCCTCATGACTTAGGAAAAGTT
GGAGAGGTCATTGTGACCAAGACGATGCCATGCTCTTAAAAGGAAAAGGTGACAAGGCTCAAATTGAA
AAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAGTGAATATGAAAAGGAAAACTGAAT
GAACGGCTTGCAAACTTTCAGATGGAGTGGCTGTGCTGAAGTTGGTGGGACAAGTGTGTTGAAGTG
AATGAAAAGAAAAGACAGAGTTACAGATGCCCTTAAATGCTACAAGAGCTGCTGTTGAAGAAGGCATTGTT
TTGGGAGGGGTTGTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAATGAAGAT
CAAAAAATTTGGTATAGAAATTATTAAGAAGAACTCAAAATTCAGCAATGACCATTGCTAAGAATGCA
GGTGTGAAAGGATCTTTGATAGTTGAGAAAATTATGCAAAGTTCCCTCAGAAGTTGGTTATGATGCTATG
GCTGGAGATTTTGTGAATATGGTGGAAAAGGAATCATTGACCCAACAAAGGTTGTGAGAACTGCTTTA
TTGGATGCTGCTGGTGTGCCCTCTCTGTTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAA
GAGAAGGACCCTGGAATGGGTGCAATGGTGGAAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAA
ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_199440

**Insert Size:** 1722 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_199440.1</a>
<b>RefSeq Size:</b>	2319 bp
<b>RefSeq ORF:</b>	1722 bp
<b>Locus ID:</b>	3329
<b>UniProt ID:</b>	<a href="#">P10809</a>
<b>Cytogenetics:</b>	2q33.1
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	RNA degradation, Type I diabetes mellitus
<b>MW:</b>	61.1 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Several pseudogenes have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform.</p>