

Product datasheet for **SC111640**

Hsp60 (HSPD1) (NM_002156) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp60 (HSPD1) (NM_002156) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hsp60
Synonyms:	CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HuCHA60; SPG13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111640 sequence for NM_002156 edited (data generated by NextGen Sequencing)

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ATGCTTCGGTTACCCACAGTCTTTCGCCAGATGAGACCGGTGCCAGGGTACTGGCTCCT
CATCTCACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCGATGCCCGAGCCTTAATG
CTTCAAGTGTAGACCTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGA
ACAGTGATTATTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTT
GCAAAGTCAATTGACTTAAAAGATAAATACAAAACATTGGAGCTAAACTTGTTCAGAT
GTTGCCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACTGCTACTGTACTGGCA
CGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGTGCTAATCCAGTGGAAATC
AGGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACCTAAAAAGCAGTCTAAA
CCTGTGACCACCCTGAAGAAATTGCACAGGTTGCTACGATTTCTGCAAACGGAGACAAA
GAAATTGGCAATATCATCTGTGATGCAATGAAAAAAGTTGGAAGAAAGGGTGTCAACACA
GTAAAGGATGGAAAAACTGAATGATGAATTAGAAATATTGAAGGCATGAAGTTTGAT
CGAGGCTATATTTCTCCATACTTTATTAATACATCAAAGGTGAGAAATGTGAATCCAG
GATGCCTATGTTCTGTTGAGTGAAGAAGAAATTTCTAGTATCCAGTCCATTGTACCTGCT
CTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGA
GAAGCTCTAAGTACACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTC
AAGGCTCCAGGGTTTGGTGACAATAGAAAGAACCAGCTTAAAGATATGGCTATTGCTACT
GGTGGTGCAGTGTGGGAGAAGAGGGATTGACCCTGAATCTTGAAGACGTTCCAGCCTCAT
GACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTTAAAGGA
AAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTC
ACAAGTGTGAATATGAAAAGGAAAAACTGAATGAACGGCTTGCAAAAACCTTCAGATGGA
GTGGCTGTGCTGAAGGTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGA
GTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGCATTGTTTTGGGAGGG
GTTTGTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAATGAAGAT
CAAAAAATTGGTATAGAAATTATTAAGAAGAACTCAAAATCCAGCAATGACCATTGCT
AAGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAGTTCCTCAGAA
GTTGGTTATGATGCTATGGCTGGAGATTTGTGAATATGGTGGAAAAAGGAATCATTGAC
CCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCTGCTGGTGTGGCCTCTCTGTTAACT
ACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAATGGGTGCA
ATGGGTGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAA
    
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Clone variation with respect to NM_002156.4

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002156 unedited
TTTAGGTTTTGTAAATACGACTTACTATAGGGCGGCCGACGAATTCGCACGAGGGTCTCGC
CGAGCGCACGCCCTTGCCGCCGCCCGCAGAATGCTTCGGTTACCCACAGTCTTTCGCCAG
ATGAGACCGGTGTCCAGGTAAGTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTA
AAATTTGGTGCAGATGCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCT
GTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTGATTATTGAGCAGAGTTGGGGAAGT
CCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTAAAAGATAAATAC
AAAAACATTGGAGCTAACTTGTCAAGATGTTGCCAATAACACAAATGAAGAAGCTGGG
GATGGCACTACCACTGCTACTGTACTGGCAGCCTCTATAGCCAAGGAAGGCTTCGAGAAG
ATTAGCAAAGGTGCTAATCCAGTGGAAATCAGGAGAGGTGTGATGTTAGCTGTTGATGCT
GTAATTGTGAACTTAAAAGCAGTCTAAACCTGTGACCACCCTGAAGAAATTGCACAG
GTTGCTACGATTTCTGCAAACGGAGACCAAGAAATTTGGCAATATCATCTCTGATGCAATG
AANAAAGTTGGAAGAAAGGGTGTGCATCACAGTAAAGGATGGAAAAACTGAATGATGAA
TTAGAAATTATTGAAGGCATNGAGTTTGTGATCGAGGCTATNATCCCATCTTTATTAATA
CATCANAAGGTCAGAAATGTGAATTNCCAGATGCCTATGTTCTGNTGAGTGAAAAGAAAT
TTCTAGTATCCAGTCCATTGTACCTGCTNCTGAAATTGCAATGCTNACCNTAGCCTTGG
NTCATNATCGCTGAAGAATGTGATGGAGAAAGCTCTAGTC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002156 unedited GCACCTCCAGGGCCGGAATAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGT TCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTA ACTTTAAACAAATTTTTATTACACAAAGTTGTACATAATTGGATACTTCTCTACTTTG TACACAATTATTCTCACTCTCCACAGAAAGGCTGCTTAACTTCTCATCTGGTGGTGGCAA GCCTAAAATCCTGATTTAACAGAATAGTAGTAAAAATGCCTCAGTGATTTAAGTTGAA AGCAGTACACTGGTACATGGCTCTGTACCCAGTATCAGGAATGTACAAATGTTTTTTAT TCAAAAATACAAAATAAATTATCTGTAGGCATGGACAATGACAGCAGTAAACCATTATAT ATTTTGTCAACTGAAACCAGTAAGTATAGTATTTTTCAGCCAGCCTTTTTTCTT CATTTTCTCCAAGTACTTCTCTGAAGTATTGGTGGAGGAACACTGCCTTGGGCTTCTG TCACAGTTCATTAATAAAGGTAAAGCACTAGTCTAGGAGTTAGAACATGCCACCTCCCAT ACCACCTCCATTCCACCATTGCACCCATTCCAGGGTCTTCTCTTTAGGAATTTCT TGTGACTACAACCTTCTGCTGTAGTTAACAGAGAGGCCACACCAGCAGCATCCAATAAAGC AGTTCTCACAACTTTGNTGGGTCATGATTCTTTTTCCACCATATTCACAAAATCTNC AGCCATAGCATCATAACCCACTTCTGAGGAACCTTGCATAANTTTCTCACTATCAAAGAT CCTTTCACACCTGCATTCTAGCATGGNCATTGCTGAAAATTTGGAGTGTCTC
Restriction Sites:	NotI-NotI
ACCN:	NM_002156
Insert Size:	2240 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).
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_002156.4</u> , <u>NP_002147.2</u>
RefSeq Size:	2339 bp
RefSeq ORF:	1722 bp
Locus ID:	3329
UniProt ID:	<u>P10809</u>
Cytogenetics:	2q33.1
Domains:	cpn60_TCP1
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	RNA degradation, Type I diabetes mellitus

Gene Summary:

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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.