

Product datasheet for **SC120181**

HSPA12B (NM_052970) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSPA12B (NM_052970) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSPA12B
Synonyms:	C20orf60
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120181 sequence for NM_052970 edited (data generated by NextGen Sequencing)

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ATGTTGGCTGTCCCGAGATGGGCTGCAGGGGCTGTACATCGGCTCCAGCCCGGAGCGG
TCCCCAGTGCCTAGCCCACCCGGCTCCCCGAGGACCCAGGAAAGCTGCGGCATTGCCCCC
CTCACACCCTCGCAGTCTCCAAAACCCGAGGTCCGAGCCCCCAGCAGGCCTCCTTCTCT
GTGGTGGTGGCCATTGACTTCGGCACCACGTCTAGTGGCTATGCTTTCAGCTTTGCCAGT
GACCTGAGGCCATCCACATGATGAGGAAATGGGAGGGCGGAGACCCGGGCGTGGCCAC
CAGAAGACCCCGACCTGCCTGCTGCTGACTCCGGAGGGCGCCTTCCACAGCTTTGGCTAC
ACCGCCCGCGATTACTACCATGACCTGGACCCCGAAGAGGCGCGGACTGGCTCTACTTC
GAGAAGTTC AAGATGAAGATCCACACGCCACGGATCTCACCTTGAAGACCCAGCTAGAG
GCAGTAAATGAAAGACGATGCCCGCCCTGGAGGTGTTGCCCCATGCCCTGCGCTTCTTC
AGGGAGCACGCCCTTCAGGAGCTGAGGGAGCAGAGCCCATCGCTGCCAGAGAAGGACACT
GTGCGTGGGTGTTGACGGTGCCTGCCATCTGAAACAGCCAGCCAAGCAGTTCATGCGG
GAGGCTGCCTACCTGGCTGGACTAGTGTCCCGAGAGAATGCAGAGCAGCTACTCATCGCC
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CTGAGTGGCCGGGCCCCAGGTGGTGGGCGCCTGGGTGAGCGCCGCTCCATCGACTCCAGC
TTCCGTACAGGCTCGGGAGCAGCTGCGAAGTCCCGCCACAGCCGACGTTCTGGTGGAG
TCAGGCGTAGGAGAGCTGTGGGAGAGATGCAAGCAGGAGACCGCTACGTGGTGGCCGAC
TGCGGCGGAGGCACCGTGGACCTGACCGTGCACCAGCTGGAGCAGCCCCATGGCACCCCTC
AAGGAGCTCTACAAGGCATCTGGGGGCCCTTATGGCGCGGTGGGCGTGGACCTGGCCTTC
GAGCAGCTGCTGTGCCGATCTTCGGCGAGGACTTCATCGCCACCTTCAAAGGCAACGG
CCGGCAGCCTGGGTAGATCTGACCATCGCCTTCGAGGCTCGCAAGCGCACTGCTGGCCCA
CACCGTGCAGGGGCGCTCAACATCTCGCTGCCCTTCTCCTTCATTGACTTCTACCGCAAG
CAGCGGGGCCACAACGTGGAGACCGCTCTGCGCAGGAGCAGCGTGAACCTCGTGAAGTGG
TCCTCACAGGGGATGCTCCGAATGTCTTGTGAAGCCATGAACGAGCTCTTTCAGCCACC
GTCAGCGGGATCATCCAGCACATAGAGGCCCTGCTGGCACGGCCGGAGGTGCAGGGTGTG
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CTCACCTATGGCGTGGGCGTGTCAACCGCTTTGTGCTGGGCGCCACCCGCCGAAAAG
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GAGCAGTCGTTGGCCCTGGGCGAGGAGGTGCGGCGCAGCTACTGCCCGCGCTCCCGGC
CAGCGGCGGCTACTCATCAACCTGTACTGCTGCGCGGAGAGGATGCGCGCTTATCACC
GACCCCGGCGTGCGAAAATGTGGCGCGCTCAGCCTCGAGCTTGAGCCCGCGACTGCGGC
CAGGACACCGCGGCGCGCTCCCGGCCCGCGAGATCCGCGCCGCCATGCAGTTTGGC
GACACCGAAATTAAGGTCACCGCCGTCGACGTCAGCACCAATCGTCCGTGCGCGCGTCC
ATCGACTTCTTTCCAACTGA
    
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Clone variation with respect to NM_052970.4
1881 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_052970 unedited
 NTCTTTCACCCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
 AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC
 GCGAATTCGGCACGAGGCGGGCGGCTGGACGGGGCTGGAGCTGTCGGGAGGGCGGAGCTAC
 AGGGCCTGCAAGGATGTTGGCTGTCCCGGAGATGGGCCTGCAGGGGCTGTACATCGGCTC
 CAGCCCCGAGCGGTCCCCAGTGCCTAGCCACCCGGCTCCCCGAGGACCCAGGAAAGCTG
 CGGCATTGCCCCCTCACACCCTCGCAGTCTCCAAAACCCGAGGTCCGAGCCCCCAGCA
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 CAGCTTTGCCAGTGACCCTGAGGCCATCCACATGATGAGGAAATGGGAGGGCGGAGACCC
 GGGCGTGGCCACCAGAAGACCCCGACCTGCCTGCTGCTGACTCCGGAGGGCGCCTTCCA
 CAGCTTTGGCTACACCGCCCGGATTACTACCATGACCTGGACCCGAAGAGGGCGGGGA
 CTGGCTTACTTCGAGAAGTTCAAGATGAAGATCCACAGCGCCACGGATCTCACTTGAA
 GACCCAGCTAGAGGCAGTAAATGAAAAGACGATGCCCGCCCTGGAGGTGTTGCCCATGC
 CCTGCGCTTCTTCAGGGAGCACGCCCTCAGGAGCTGAGGGAGCAGAGCCCATCGCTGCC
 AGAGAAAAGACACTGTGCGCTGGGTGTTGACGGTGCCTGCCATCTGAAAACAGCCAGCCAA
 GCAGTTTATGCGNAGGCTGCCTACCTGGCTGGACTAGTGTCCNGAGAGATGCAGAGCAG
 CTACTCATCGCCCTGGAGCCCGAGCCCGCTCGTATACGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_052970 unedited
 GGTTCATTATGTACGCGCCGATTCTAAGATCGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTCCC
 CCTTGACCAAAAATGTTTTATTGGCCCCCAGGGCTTTAAAGCAGGGGGGCTTTTGCAT
 CCCCTTTAAAGGAAAGGCCGACTTTTACACTTTAAAAAACTGAGGCCATGACCCGGA
 AAAAAATGTCCTAAAGGCTCCCGGTCAATAGCAAAGCTGGGCCCCCTTATTGGT
 CCCTTTGGCCCCCATCCCCCCCAATTGTTTTTCATGGGTGGGGGGGGGGGCAAAG
 GGGGCCCTTCAAAAAGTACCTTGGGGCCCTCCAAACGGGGTTTTGTCCCAAAAAAA
 TGCCCCCCCCATAATTGCCCCCCCAAAAAATGTTCCCCCCCCACATTAATACTAC
 TGCCCTTCCACAATCAAAGTCATTTTTGGGGGGGAACACCCACCAGGACTGGGCC
 CCCCCCTGGCCCTTGGGAGTCCATTTCCAGTCACTTTCTACGAAAAGGTTTTTCTC
 CCGGGCCCCGGTTGGGCTGAATCGGCCAAAAATAAACTTTAACCTGGAGGTCCAAA
 CCCTGGACAACCTTCTTCTCCTGGGGTCTCCTGGCATCTACCCCCACCCCTATTG
 GGCAATTTTAAACCAGGACTCTTCGTTGCGTTCTTCTTCGGGACACATGCCCTTGG
 CGGGCTGGGCCCTTGTGTTTAAAACTTTCTTTTAACTTAAATCCTGGGGGGGCCCTT
 TAATCGGGGAGTAAGGGACCAGGCCCAACCCAAACCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_052970

Insert Size:

3300 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:

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_052970.3](#), [NP_443202.3](#)

RefSeq Size: 3109 bp

RefSeq ORF: 2061 bp

Locus ID: 116835

UniProt ID: [Q96MM6](#)

Cytogenetics: 20p13

Gene Summary: The protein encoded by this gene contains an atypical heat shock protein 70 (Hsp70) ATPase domain and is therefore a distant member of the mammalian Hsp70 family. This gene may be involved in susceptibility to atherosclerosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).