

Product datasheet for SC105817

HSCB (BC000004) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSCB (BC000004) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSCB
Synonyms:	DNAJC20; HSC20; JAC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC000004, the custom clone sequence may differ by one or more nucleotides

```
GGCACGAGGTCTGGTTAGACGCTCTCTTTGCTTTTCCCCACGAGTGACCACGGCTAGATAGGCCGCGGC
CAGATGTGGCGGGGAGAGCCGGGGCTTTGCTCCGGGTGTGGGGTTTTGGCCGACAGGGTTCCAGAA
GGAGACCGCTAAGCTGCGATGCTGCGTCGAGCGGGAAGCAATTATCCCCGCTGTTGAACTGCGGCG
CCCATGGGGCCCCGGGCGGGAGGACAGGTTCTTCTGCCACAGTGCCGAGCGCTGCAGGCACCTGACCC
ACTCGAGACTACTTCAGCCTTATGGACTGCAACCGTTCCTTCAGAGTTGATACAGCGAAGCTCCAGACA
GGTACCAGCAACTGCAGCGTCTTGTCACCCAGATTTCTTCAGCCAGAGGTCAGACTGAAAAGGACTT
CTCAGAGAAGCATTGACCCCTGGTGAATGATGCCTATAAGACCCCTCTGGCCCCCTGAGCAGAGGACTG
TACCTTCTAAAGCTCCATGGAATAGAGATTCTGAAAGGACAGATTATGAAATGGACAGGAATTCTCA
TAGAAATAATGGAATCAATGAAAACTCGCAGAAGCTGAAAGTGAAGCTGCCATGAAAGAGATTGAATC
CATTGTCAAAGCTAAACAGAAAGATTTACTGACAATGTGAGCAGTGCTTTTGAACAAGATGACTTTGAA
GAAGCCAAGGAAATTTTGACAAAGATGAGATACTTTTCAAATATAGAAGAAAAGATCAAGTTAAAGAAGA
TTCCCCTTAATTGTGGATAGTTTAAAGTTTAAAAATAAAGTCTTGCTGGGCACAGTGGCTCACACCT
GTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATGACAAGGTCAGGAGTTCAAGACCAGCTTGCCA
ACATAGTAAAACCCCGTCTCTGCTGAAAATACAAAAATTAGCCGGGCATGGTGGCGCTGCCTGTAATCC
CAGCTACTTGGTAGGCCGAGGCAGGAGAATCGCTTAAACCCGTGAGGTGGAGTTGCAGTGAGCAGAGAT
CAGCAACTGCACTCCAGCTTGGCAACAGAGTGAGACTTAATCTTAAAAATAAATAAATGAAAAATAA
AAAAAAAAAAAAAAAAAAAA
```



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC000004 unedited</p> <pre>CGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCACGGCTAGATAGGCCGCCGGCC AGATGTGGCGGGGAGAGCCGGGCTTTGCTCCGGGTGTGGGGTTTTGGCCGACAGGGG TTCCCAGAAGGAGACCGCTAAGCTGCGATGCTGCGTCGCAGGCCGGAAGCAATTATCCCC GCTGTTGGAAGTGCAGCGGCCCATGGGGCCCCGGGCGGGAGGACAGGTTCTTCTGCCAC AGTGCCGAGCGCTGCAGGCACCTGACCCCACTCGAGACTACTTCAGCCTTATGGACTGCA ACCGTTCCTTCAGAGTTGATACAGCGAAGCTCCAGCACAGGTACCAGCAACTGCAGCGTC TTGTCCACCCAGATTTCTTCAGCCAGAGGTCTCAGACTGAAAAGGACTTCTCAGAGAAGC ATTCGACCCTGGTGAATGATGCCTATAAGACCCTCCTGGCCCCCTGAGCAGAGGACTGT ACCTTGTAAGCTAAAGCTCCATGGAATAGAGATTCCTGAAAGGACAGATTATGAAATGGA CAGGCAATTCCTCATAGAAATAATGAAATCAATGAAAACTCGCAGAAGCTGAAAGTGA AGCTGCCATGAAAGAGATTGAATCCATTGTCAAAGCTAAACAGAAAGAATTTACTGACAA TGTGAGCAGTGCTTTTGAACAAGATGACTNTGAAGAAGCCAAGGAAATTTTGANCAAGAT GAGATACTTTTCAATATAGAAGANAGATCAGTTAAAGAAGATCCCCTTTAATTGTGGA TAGTTTAAAGTTAAAAATAAGTTCTTGCTGGGCACAGTGGCTCACACCTGTAATCCCAG CACTTTGGGAAGGCTGAGTGGGTGGATGACAAGGTCANGGAGTCAAGACCAGCTGGCACT TTAANTGAAAACCGTCTCTGCTGAAATACAAAATAGCN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC000004 unedited</p> <pre>CAATCCCCTGCACCGCGCCCGCAATTTACAGGCGTTTTTTTTTTTTTTTTTTTTCATTTA TTTACTTTTTAAGATTACCTCTCACTCTGTTGCCAAGATGGAGTGCAGCTGCGTGACCT TTGATCACTGAAACCTCCACCTAACGGAATTAAGCGACTCTCCTGCCTCGCCCTACCACG AAGCTGGAAATACAGGCCCGCGCCACCATGCCCGCTAATTTTTGCATTTTCAGCAGAGC ACGGAGTTAAACTATGCCGCCAAGTTGGTCTTGCCCTCCCGACCTTGCCATCCACCCAC CTAAGCCTCCACAGCGCTGGCACCACCGGTGTGAGCCACTTGTGCCACGCAAGCACCT TATTTTTCTACCTTCTAACCTATTTCCACTTAAAGGGGACCTCTCTTAACTTGATCTTT CCTTCTATATCTCGCACGCATCCATCTTTCCGCCAAGCTTTCCGCCTTTCTCAGTCC TCCCGCCAAAAGCACTGCTCACATCGCCCCGACCATTCTTTTTGGTCAGCATCTGCAGC GAAACCAACCTCTTTATGCTAGCTTACCTCCACCTCTCGCGGCTACTCCTCGCTCC CCATACCCCAACCGAGGAACCCGCCCAATCACCTAACNGCACTTTAAGGCCACCTA CACTCTAGGACGTCTCTACCCACCACCATCGATCTTCCGCAAACGTAGGCATCACTCGC CACCCACCCTATTCTCTACCACCCTCGACTGATCTTTTCCCATCCCTCTATGCTCCTA ACCCCATACTTTACCCCTCCGTCCTCCTCTTCCACGCTCTTTCTTCACTCCACCCTCT AACACTCCACTCTCAATCCCTTCTATCCTTTCAAACATTCCATTCTTCTTCCCCCCCC TCTCTCTCTTTCTCTGCTATTTATTTCTCCATCCCAACCTCTCCCTCCTCATCCTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	BC000004
Insert Size:	1080 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: [BC000004.1](#)

RefSeq Size: 1138 bp

RefSeq ORF: 1138 bp

Locus ID: 150274

Cytogenetics: 22q12.1

Domains: Dnaj

Gene Summary: This gene encodes a Dnaj-type co-chaperone and member of the heat shock cognate B (HscB) family of proteins. The encoded protein plays a role in the synthesis of iron-sulfur clusters, protein cofactors that are involved in the redox reactions of mitochondrial electron transport and other processes. Cells in which this gene is knocked down exhibit reduced activity of iron-sulfur cluster-dependent enzymes including succinate dehydrogenase and aconitase. The encoded protein may stimulate the ATPase activity of the mitochondrial stress-70 protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]