

## Product datasheet for **SC309178**

### HSCB (NM\_172002) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSCB (NM_172002) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSCB
Synonyms:	DNAJC20; HSC20; JAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_172002 edited

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GGCAGGAGGTCTGGTTAGACGCTCTCTTTGCTTTTCCCCACGAGTGACCACGGCTAGATA
GGCCGCCGGCCAGATGTGGCGGGGAGAGCCGGGGCTTTGCTCCGGGTGTGGGGTTTTG
GCCGACAGGGTTCCCAAGGAGACCGCTAAGCTGCGATGCTGCGTCGACGGCGGAAG
CAATTATCCCGCTGTTGGAACGCGGCGGCCATGGGGCCCGGGCGGAGGACAGGTT
CTTCTGCCACAGTGCCGAGCGCTGCAGGCACCTGACCCCACTCGAGACTACTTCAGCCT
TATGGACTGCAACCGTTCTTCAGAGTTGATACAGCGAAGCTCCAGCACAGGTACCAGCA
ACTGCAGCGTCTGTCCACCCAGATTTCTTCAGCCAGAGGTCTCAGACTGAAAAGGACTT
CTCAGAGAAGCATTGACCCTGGTGAATGATGCCTATAAGACCCTCCTGGCCCCCTGAG
CAGAGGACTGTACCTTCTAAAGCTCCATGGAATAGAGATTCTGAAAGGACAGATTATGA
AATGGACAGGCAATTCCTCATAGAAATAATGGAATCAATGAAAACTCGCAGAAGCTGA
AAGTGAAGCTGCCATGAAAGAGATTGAATCCATTGTCAAAGCTAAACAGAAAGAATTTAC
TGACAATGTGAGCAGTGCTTTTGAACAAGATGACTTTGAAGAAGCCAAGGAAATTTTAC
AAAGATGAGATACTTTTCAAATATAGAAGAAAAGATCAAGTTAAAGAAGATTTCCCTTTA
ATTGTGGATAGTTTAAAGTTTAAAAATAAAGTTCTTGCTGGGCACAGTGCTCACACCT
GTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATGACAAGGTCAGGAGTTCAAGACC
AGCTTGGCCAACATAGTGAACCCCGTCTCTGCTGAAAATACAAAAATTAGCCGGGCATG
GTGGCGCGTGCTGTAATCCCAGCTACTTGGTAGGCCGAGGCAGGAGAATCGCTTAAACC
CGTGAGGTGGAGGTTGCAGTGAGCAGAGATCACGCAACTGCACTCCAGCTTGGGCAACAG
AGTGAGACTTAATCTTGAAAAATAAATAAATGAAAAATAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites:	Please inquire
ACCN:	NM_172002
Insert Size:	1100 bp


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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_172002.3.
<b>Components:</b>	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>	<u>NM_172002.3, NP_741999.3</u>
<b>RefSeq Size:</b>	1106 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	150274
<b>UniProt ID:</b>	<u>Q8IWL3</u>
<b>Cytogenetics:</b>	22q12.1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>