

Product datasheet for **MC201343**

Hscb (NM_153571) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hscb (NM_153571) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hscb
Synonyms: AI325508; AW049829; Hsc20
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC027641 sequence for NM_153571
 AGCGGCCGTCCCAATGTGGGGATGCGGAGCCCGTGCCCTGCTGGGTGTGTGGGAGGTGCGGCTGGCAGGG
 TTCCTGGGAAGGAGACTTTTGGGCAGCAATGCCGCCGCGGGGAAGAGCATTGCACCCGAGTCTGGA
 GCGGTACGCAAGGGAAGCCGGGTGTGGGGATGAGTTCTTCTGCTCACACTGCCGCGCTCTGCAGCCTCC
 TGACCCCACTCGTGACTACTTCAGCCTCATGAACTGCAACCGCTCCTTCAGGGTGGACGTTACGAACTT
 CAGCACAGGTACCAGCAACTGCAGCGGCTTGCCACCCAGATTTCTTCAGCCAAAAGTCTCAGACTGAAA
 AACACTTCTGACAAGCACTCCACCCTGGTGAATGATGCCTATAAGACTCTTCAGGCTCCCCTGACCAG
 AGGACTATATCTTAAAGCTCCAGGGAATAGAAATTCCTGAAGGGACAGATTACAAAGCAGACAGTCAG
 TTCCTTGTGGAATCATGGAATCAATGAAAGACTCGCAGACGCCCAAAGTGAGGCCCATGGAAGAGA
 TAGAAGCCACTGTCAGAGCTAAACAGAAAGAATTTACTGACAATATAAACAGCGCTTTTGAACAAGGTGA
 CTTTGAAAAGCCAAGGAACTCCTGACAAAGATGAGATACTTTTCGAACATAGAAGAAAAGATCAAGCTA
 AGCAAGACTCCTCTAGTTGCTAACTTAAAGTTTGTAGAAATAAACTTTGTATTTCTTTCTGGCTTCAA
 AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: NM_153571

Insert Size: 480 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).



[View online »](#)

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: [BC027641](#), [AAH27641](#)

RefSeq Size: 789 bp

RefSeq ORF: 480 bp

Locus ID: 100900

UniProt ID: [Q8K3A0](#)

Cytogenetics: 5 F

Gene Summary: Acts as a co-chaperone in iron-sulfur cluster assembly in both mitochondria and the cytoplasm. Required for incorporation of iron-sulfur clusters into SDHB, the iron-sulfur protein subunit of succinate dehydrogenase that is involved in complex II of the mitochondrial electron transport chain. Recruited to SDHB by interaction with SDHAF1 which first binds SDHB and then recruits the iron-sulfur transfer complex formed by HSC20, HSPA9 and ISCU through direct binding to HSC20. Also mediates complex formation between components of the cytosolic iron-sulfur biogenesis pathway and the CIA targeting complex composed of CIAO1, DIPK1B/FAM69B and MMS19 by binding directly to the scaffold protein ISCU and to CIAO1. This facilitates iron-sulfur cluster insertion into a number of cytoplasmic and nuclear proteins including POLD1, ELP3, DPYD and PPAT.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1).