

Product datasheet for RG200843

HSCB (NM_172002) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HSCB (NM_172002) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: HSCB

Synonyms: DNAJC20; HSC20; JAC1

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG200843 representing NM_172002

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTGGCGGGGGAGAGCCGGGGCTTTGCTCCGGGTGTGGGGGTTTTGGCCGACAGGGGTTCCCAGAAGGA
GACCGCTAAGCTGCGATGCTGCGTCGCAGGCGGGAAGCAATTATCCCCGCTGTTGGAACTGCGGCGGCCC
ATGGGGCCCCGGGCGGAGGACAGGTTCTTCTGCCCACAGTGCCGAGCGCTGCAGGCACCTGACCCCACT
CGAGACTACTTCAGCCTTATGGACTGCAACCGTTCCTTCAGAGTTGATACAGCGAAGCTCCAGCACAGGT
ACCAGCAACTGCAGCGTCTTGTCCACCCAGATTTCTTCAGCCAGAGGTCTCAGACATGAAAAGGACTTCTC
AGAGAAGCATTCGACCCTGGTGAATGATGCCTATAAGACCCTCCTGGCCCCCCTGAGCAGAGGACTGTAC
CTTCTAAAGCTCCATGGAATAGAGATTCCTGAAAGGACAGATTATGAAATGGACAGGCAATTCCTCATAG
AAATAATGGAAATCAATGAAAAACTCGCAGAAGCTGAAAGTGAAGCTGCCATGAAAGAATTGAATCCAT
TGTCAAAGCTAAACAGAAAGAATTTACTGACAATGTGAGCAGTGCTTTTGAACAAGATTAAAAGAAGATTC

CCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Protein Sequence: >RG200843 representing NM_172002

Red=Cloning site Green=Tags(s)

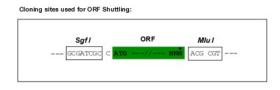
MWRGRAGALLRVWGFWPTGVPRRRPLSCDAASQAGSNYPRCWNCGGPWGPGREDRFFCPQCRALQAPDPT RDYFSLMDCNRSFRVDTAKLQHRYQQLQRLVHPDFFSQRSQTEKDFSEKHSTLVNDAYKTLLAPLSRGLY LLKLHGIEIPERTDYEMDROFLIEIMEINEKLAEAESEAAMKEIESIVKAKOKEFTDNVSSAFEODDFEE AKEILTKMRYFSNIEEKIKLKKIPL

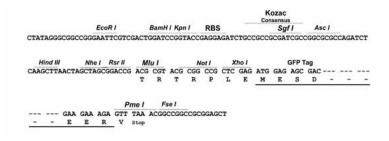
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM 172002

ORF Size: 705 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 172002.5</u>

 RefSeq Size:
 1106 bp

 RefSeq ORF:
 708 bp

 Locus ID:
 150274

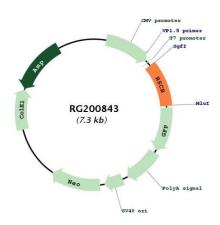
 UniProt ID:
 Q8IWL3

 Cytogenetics:
 22q12.1

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]

Product images:



Circular map for RG200843