

Product datasheet for **MC217965**

Hps1 (BC089331) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hps1 (BC089331) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hps1
Synonyms:	6030422N11Rik; BB405864; ep; Gm21361; Hps
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC089331
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTGCCTGTTGGTGGCCACCGAGGGCGCAGAGGTCCTTCTACTGGACAGATGAGGAGTTTGCTG
 AGAGCCTCCGGCTGAAGCTCCAGCAGTCAGAGGATGAGGAAGAGGAGCTCCCTGTGCTGGAGGACCAGCT
 CAGCACCCCTCTGGCCCCAGTCATCTCCTCCATGACGATGATGGAGAAGCTCTCGGACACATATAACC
 TGCTTCTCAACAGAAAATGACAACCACCTGTATGTCTGCATCTGTTGGAGAGTACCTGTTCTGTCGCCA
 TCAACGGAGACCACAGTGAGAGCGAGGGGGACCTGCGGAGGAAATTTTGTGTGCTCAAGTATCTATTGCA
 GGTGCACTTCGGGCTGGTACTGTGGACGGCCAGCTCATCCGGAAGGAGCTTCGTCACCCGACCTGGAA
 GAGCGTCCCGGGTGTGGAAGCACTTTCAGAGACTGCTGGGGACCTACAGCTACCTGCGGGACCGGGAGC
 AGAGCTTTGCTGTGGAGCAGTGGAGCGGCTCATTACCCCCAGCTCTGCGAACAGAGCATCGAGACGCT
 AGAGCGGCACGTGGTTCAAGCCATCAACGCCAGCCCCGAGCGGGCGGTGAAGAGTCTGCACGCCTTC
 CTGCTGGTGCACCTGCAAGCTGTTGGCTTTCTACTCCGGCCATGGTGCAGCACCCCTGCGCCCCGAGACC
 TCCTGGCGCTCATCCTTCTGGTGCAGGACCTCCAGCCCTCCCCAGGAACACAGAGGAGGAGGAGGAGGA
 GGAGGATAGCGACAGCCCTCAGAGGAGACCCAAGAGCAGCAAAAACATCCAGTGCAGCAGGCAAGGAGC
 CAGAGCACCTCAGTCCCCACCAGGAGTTCAGGGAGACAGACACAGACAGCATCTCCCTCCCTGAAGAGT
 ACTTCACTCCTGCTCCTTCCCCAGGCGATCAGAGTTCAGGTAGCCTCGTCTGGCTGGATGGTGGCACCCC
 GCCCAGCGATGCTCTTCAGATGGCTGAGGACACCCCGAGGGGCTGGCGTCTCACTCCCCAGAATTCCC
 AGCCCCAGAAGGATCTTCTGGATGCCAACATAAAAGAAAACACTGTCCCTTAGTGCCCCACACCATGT
 ACTGCCCTGCCCTGTGGCCAGGCATCAACATGGTGTCTGTGACCAAGAGCCCCAGCACCCCACTGGCCCT
 GATCCTGTACCAACTGCTGGATGGCTTCTCCCTCCTGGAGAAAAAGCTGAAGGAAGTTCAGGAGGCCGGA
 AGTGCCCTGCGATCCCAGCCCTTGTGGTGCAGACCTGCGCCAGAAGATGGACAAGTTTATCAAGAATCGAG
 TTGGGCAGGAGATTCAGAACACCTGGCTGGAGTTAAGAGCAAAGCCTTCTCTAGAAGTGAAGCCAGGATC
 GTCCTGGGAGCTGCTCCAGGTCTGTGGAAGCTGAAGCGACAGCTGTGTGCATCTACCGGCTTAGCTTC
 CTGGTCACTGCACCCAGCAGAGGAGGACCGCACCTGCCCCAGCACCTGCAGGACCGAGCCAGAACTCA
 TGAAGGAGAGGCTTCTGGACTGGAAGGACTTCTGTTGGTGAAGAGCCGGAGAAATGTCACCATGGTGTG
 CTACCTGGAGGATTTCCAGGCCTGGTCCACTTCTATGTGGACCGTACAACCGGCAGATGGTGGCC
 CCCTCTCTCAGCCCCAACGAAAAGATGTCTTCCGAGTTGGCAAGGGGCCCTGGCTGCCTTTGTCAAAG
 CCAAGGTCTGGGCTCTGGTCCGACTGGCGCGCAGGTACCTGCAGAAGGGCTGCACCACACTGCTGTTCCA
 GGAAGGGGACTTCCGCTGCTCCTACTTCTGTGGTTCGAGAATGACATGGTGGGTGTGCCAGTCTCTGG
 GCAGGGCGGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC089331

Insert Size: 1905 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: [BC089331](#), [AAH89331](#)

RefSeq Size: 4235 bp

RefSeq ORF: 1904 bp

Locus ID: 192236

Cytogenetics: 19 36.56 cM

Gene Summary: Component of the BLOC-3 complex, a complex that acts as a guanine exchange factor (GEF) for RAB32 and RAB38, promotes the exchange of GDP to GTP, converting them from an inactive GDP-bound form into an active GTP-bound form. The BLOC-3 complex plays an important role in the control of melanin production and melanosome biogenesis and promotes the membrane localization of RAB32 and RAB38.[UniProtKB/Swiss-Prot Function]