

Product datasheet for **MC203415**

Hps4 (NM_138646) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hps4 (NM_138646) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hps4
Synonyms:	2010205O06Rik; AU040608; BLOC-3; C130020P05Rik; le; mKIAA1667
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC063055
TCCACCTCCAGTCTCTGGACTTGTGTCAGCAGTGCAGAGATACTTCTGGAAAGGAACCTGCCCCGAAGGG
AAGTTGCCTTTTCATATTGATTCAAGAGTGAACAAGAGGCAGAAAACCACTGGATGGTCCACACCTGGCA
TCACTGAGCTGGGGACACCAGTTGGGGGACAGAGAACTGCTTCTAGGAAGAACACCAGATGAAGAGGATG
AAGCCATCTGGAGAGTAAATGGCCACCACCACTCCCCAGAGACAAAGTCAGCAGCGTGGTGGAACTACT
TCTTCTGTATGACGGTTCGAAGGTAAGGGGAGAAGGAGACCAACCAGAGCTGGCATCTGCTACTTCTA
TCCGCCCCAGACCCTGTTAGACCAGCAGGAAGTCTCTGTGGCCAGCTTGGTGGAGTAGTGCCTGCCTG
TGGGACCTTTCTGGCACCCCGCCATGCTCATCGTATGCGGAACCTCAAGTTTGGCATCAGGGCAGATG
GGGACTACCTGTGGGCTCTGGGGTGTGGTGTGGAGATCTCTGATGCCAGTGCAGGCAGTTTCTGGATCA
GCTCATTGGATTTTTTTCATTTCTACATGGGCCCTGTCTCCCTGGCCTACAAGAGCCATCCTCAGGAGGAG
CTGAGCTTGCAGTGGGATACCTCCATCACACAAGTCTCAGGAGCACCAGCGAATCGCACAGGATCTTCA
ATGCCCTGTGGAACCTGGACCGCACAAAGTGGAGCCCTGCTGCTGCTGAAGGCAGCTCTCATTTACA
GACCTGCCAACGCTCACCTCATGTGCTAGCTGGCTGCATCCTCTATAAAGGACTGATTGTGAATCCCAG
CTCCTGCCTTCCCTCACTGCTAAGGTCCTGCTTATCAGACTGTACCTGCAGACCAGAGGCTGCCTGGAG
CAGGAGCTGCCCCACAGGAAACAGGAGCAGCGTTGCCCCGGATGTGCAGATCACCTCTGTTTTTCTGAG
TGAGGAGGAAGCTGCCAGCTCCACAGTTCACAGTAGAGCATGAAACTCGACTCCAGGGGAAGTTAGTT
CAATACCTCCCTGGGATCAAAGCAGCCCCACCCAGGCAGAAAGATGCCTGGGCATCAGCTGCCATCCCGG
AGCCCACGCCGCATGATGGAGCATGTCCGAGTGGCAGCGGGGAGATGAACGCTTGCCTAGGCTTGGAGCA
GGAGTGTGCTGGGCCACGGGACTGTGCACCACTGCCTGTGGCCAGGGCTCCGGCCTCAGCAGCAGGCTG
CAGAAGGAGCTGTGTCTCTCCGGGAGGAACTGGACTCGTCTGAAATGCACGTTTCTGAGGCTCAGGAAG
CCTTCCCACCTTTGCCTGCCCTGGGTGATCTGGAGACTCTCCACAGCAGCCACAGTGCCTCCACTCTACC
TGAAGACACAGCCATTTGAGCTGCCTGCACCTTGCCTCTTGAGAGGCTCCCTGAGAGTGAAGGCTA
GGACAGCTCGCAGACTGCCCTCACCAATGGCCAAACCCAGGTTCTTGGCACAGACCCTCTCCCAGCA
GCATGCCTGTGGCACTTCTCCACAGCATCCTGTGGGTGTAGAGCCAGTGTGGAGCCATACGGGAATGG
AGCCCAGGAGAGCCACTCAGCCCTGCCACGCAGTTCCTGCTCACCTGACTCTCCGGGCCACGCCCTCT
GCAGACAGAACTGGCTTCAAGCCATCCCATCTGGACGCCACGCAGGGCTCGTGCCCATGAACCTTACA
CCCACAGTGTGAACGGACTGGTGTCTCCCTGCTGGCCGAAGAGACTCTTCTCAGCGACTGCAGCCAT
CGAGGAGGTGTACCACAGCAGCTGGCGTCTGTAATGGGCTGGAAGTCCACCTGAAGGAGACGCTGCC
AGAGACGAGGCTAGCCTCACCAGCAGCACATACTTCTTATTATGACCGCATCCAGAGCGTGTCTCT
CAGCCAACCTGCCCTAGTACTGCTCCCAGGACCGCGGTTTCTGCAGGCCGTAACCTCATGACTC
CGACTTTGCCCTGCTGCCTATGTGTACGAGATGACCATCAGGAACGCCCTCCACAGCCGTGACGCTGC
AGCAGCCAGCCAGGAGACCTACTTCCAGCAGCTGGCACCCACTGCCCGCAGCTCTGGCTTCCCAACC
CTCAGGATTGCGCTTACGCTCGCAGGCAAAGCCAAGCAGAAAGCTGCTGAAGCAGGGGTAAACCTGCT
GTGAGCTGGGTGCAGCTTGCATATCACGAGGGCCATGTCCCAATGCTAACGGTTGAGCGGGCCCTTGT
CCTCAGTGGCAGCTGCAAGAAGTGTGGGCTCAGGTCCTGTCTGTGGAAGCCTTGAAGGCGGTGCAGA
GCAGGCTGCAGGCTCAGGAATGCAGCGGCAGGATTCACTGCTGACCGTTTACTTGAGATACCCATGGTGC
TTTGTAAACCGTATGGTGGCCAGTTCAGGTTTATGAAGCAGATTCCTCAAGGCTCAAAAAATAAATGACC
AAAGTGAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_138646

Insert Size: 2016 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: [BC063055](#), [AAH63055](#)

RefSeq Size: 2545 bp

RefSeq ORF: 2016 bp

Locus ID: 192232

UniProt ID: [Q99KG7](#)

Cytogenetics: 5 54.69 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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.