

## Product datasheet for **MC220890**

### **Hps1 (NM\_019424) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hps1 (NM_019424) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hps1
Synonyms:	6030422N11Rik; BB405864; ep; Gm21361; Hps
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220890 representing NM\_019424  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGTGC GTTGGTGGCCACCGAGGGCGCAGAGGTCCTCTTCTACTGGACAGATGAGGAGTTTGCTG  
 AGAGCCTCCGGCTGAAGCTCCAGCAGTCAGAGGATGAGGAAGAGGAGCTCCCTGTGCTGGAGGACCAGCT  
 CAGCACCCCTCTGGCCCCAGTCATCATCTCCTCCATGACGATGATGGAGAAGCTCTCGGACACATATAACC  
 TGCTTCTCAACAGAAAATGACAACCACCTGTATGTCTGTCATCTGTTGGAGAGTACCTGTTGTCGCGCA  
 TCAACGGAGACCACAGTGAGAGCGAGGGGACCTGCGGAGGAACTGTGTGTGCTCAAGTATCTATTGCA  
 GGTGCACTTCGGGCTGGTACTGTGGACGGCCAGCTCATCCGGAAGGAGCTTCGTCACCCGACCTGGAA  
 GAGCGTCCCGGGTGTGGAAGCACTTTCAGAGACTGCTGGGGACCTACAGCTACCTGCGGGACCGGGAGC  
 AGAGCTTTGCTGTGGAGCAGTGGAGCGGCTATTACCCCCAGCTCTGCGAACAGAGCATCGAGACGCT  
 AGAGCGGCACGTGGTTCAAGCCATCAACGCCAGCCCCGAGCGGGCGGTGAAGAGTCTGCACGCCTTC  
 CTGCTGGTGCACCTGCAAGCTGTTGGCTTTCTACTCCGGCCATGGTGCAGCACCCCTGCGCCCCGAGACC  
 TCCTGGCGCTCATCCTTCTGGTGCAGGACCTCCAGCCCTCCCCAGGAACACAGAGGAGGAGGAGGAGGA  
 GGAGGATAGCGACAGCCCTCAGAGGAGACCCAAGAGCAGCAAAAACATCCAGTGCAGCAGGCAAGGAGC  
 CAGAGCACCTCAGTCCCCACCAGGAGTTCAGGGAGACAGACACAGACAGCATCTCCCTCCCTGAAGAGT  
 ACTTCACTCCTGCTCCTTCCCCAGGCGATCAGAGTTCAGGTAGCCTCGTCTGGCTGGATGGTGGCACCCC  
 GCCCAGCGATGCTCTTCAGATGGCTGAGGACACCCCGAGGGGCTGGCGTCTCACTCCCCAGAATTCCC  
 AGCCCCAGAAGGATCTTCTGGATGCCAACATAAAAGAAAATACTGTCCCTTAGTCCCCACACCATGT  
 ACTGCCCTGCCCTGTGGCCAGGCATCAACATGGTGTCTGTGACCAAGAGCCCCAGCACCCCACTGGCCCT  
 GATCCTGTACCAACTGCTGGATGGCTTCTCCCTCCTGGAGAAAAAGCTGAAGGAAGTCAAGGAGCCGGA  
 AGTGCCCTGCGATCCCAGCCCTTTGTTGCAGACCTGCGCCAGAAGATGGACAAGTTTATCAAGAATCGAG  
 TTGGGCAGGAGATTGAGAACACCTGGCTGGAGTTAAGAGCAAAGCCTTCTCTAGAAGTGAAGCCAGGATC  
 GTCCTGGGAGCTGCTCCAGGTCTGTGGAAGCTGAAGCGACAGCTGTGTGTATCTACCGGCTTAGCTTC  
 CTGGTCACTGCACCCAGCAGAGGAGGACCCGACCTGCCCCAGCACCTGCAGGACCGAGCCAGAACTCA  
 TGAAGGAGAGGCTTCTGGACTGGAAGGACTTCTGTTGGTGAAGAGCCGGAGAAATGTCACCATGGTGTG  
 CTACCTGGAGGATTTCCAGGCCTGGTCCACTTCACTATGTGGACCGTACAACCGGCAGATGGTGGCC  
 CCCTCTCTCAGCCCCAACGAAAAGATGTCTTCCGAGTTGGGCAAGGGGCCCTGGCTGCCTTTGTCAAAG  
 CCAAGGTCTGGGCTCTGGTCCGACTGGCGCGCAGGTACCTGCAGAAGGGCTGCACCACACTGCTGTTCCA  
 GGAAGGGGACTTCCGCTGCTCCTACTTCTGTGGTTTCGAGAATGACATGGGATACAACTGCAGATGATT  
 GAGGTGCCTGTCTCTCGGATGACTCCGTCCTTGGCGTGTGGGAGGTGACTACTACAGGAACTTC  
 TGCGCTACTACAGCAAGACCCCTCGGAGCCCGTCAGGTGCTATGAGCTGCTCACGCTGCATCTGTC  
 CGTCATCCCCACGGACCTGCTGGTGCAGCAGGCCAGCTGGCCCGCGCCTGGGGGAGGCTCCCGG  
 GTGACCCTGCC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_019424  
**Insert Size:** 2115 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [NM\\_019424.2](#), [NP\\_062297.1](#)

**RefSeq Size:** 2800 bp

**RefSeq ORF:** 2115 bp

**Locus ID:** 192236

**UniProt ID:** [O08983](#)

**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]