

Product datasheet for **MR209628**

Hps1 (BC089331) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hps1 (BC089331) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR209628 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAGTGCCTGTTGGTGGCCACCGAGGGCGCAGAGGTCCTCTTCTACTGGACAGATGAGGAGTTTGCTG
AGAGCCTCCGGCTGAAGCTCCAGCAGTCAGAGGATGAGGAAGAGGAGCTCCCTGTGCTGGAGGACCAGCT
CAGCACCTCCTGGCCCCAGTCATCATCTCCTCCATGACGATGATGGAGAAGCTCTCGGACACATATACC
TGCTTCTCAACAGAAAATGACAACACCTGTATGTCTGCATCTGTTGGAGAGTACCTGTTGTCGCCA
TCAACGGAGACCACAGTGAGAGCGAGGGGACCTGCGGAGGAAATTTGTGTGCTCAAGTATCTATTGCA
GGTGCACCTCGGGCTGGTACTGTGGACGGCCAGCTCATCCGAAGGAGCTTCGTCACCCGACCTGGAA
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AGAGCGGCACGTGGTTCAAGCCATCAACGCCAGCCCCGAGCGGGCGGTGAAGAGGTCCTGCACGCCTTC
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AGCCCCAGAAGGATCTTCTGGATGCCAACATAAAAGAAAATACTGTCCCTTAGTGCCCCACACCATGT
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GCAGGGCGGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209628 protein sequence
 Red=Cloning site Green=Tags(s)

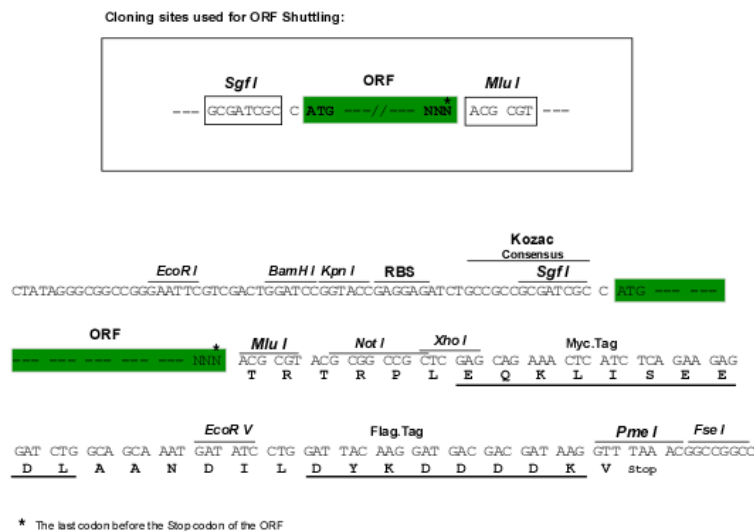
MKCVLVATEGAEVLFWTDEEFAESRLKLQQSEDEEEELPVLEDQLSTLLAPVIISMTMEKLSDTYT
 CFSTENDNHLVYLHLFGEYLFVAINGDHSESEGLRRKFCVLKYLFEVHFGLVTVDGQLIRKELRPPDL
 ERARVWKHFQRLGLTYSYLRDREQSFAVEAVERLIHPQLCEQSIETLERHVVQAINASPERGEEVLHAF
 LLVHCKLLAFYSGHGASTLRPADLLAILLVQDLQSPGTEEEEEEDSDSPQRRPKSSQNIPIVQQARS
 QSTSVPTRSSRETDTDSISLPPEYFTPAPSPGDQSSGSLVWLDGGTPPSDALQMAEDTPEGLASHPELP
 SPRRIFLDANIKENYCPLVPHTMYCLPLWPGINMVLLTKSPSTPLAILYQLLDGFSLEKLLKEGQEAG
 SALRSQPFVADLRQKMDKFIKNRVGQEIQTWLEFKSAFSRSEPGSSWELLQVCGKLRQLCVIYRLSF
 LVTAPSRGGPHLPQHLQDRAQKLMKERLLDWKDFLLVKSRRNVTMVSYLEDFPGLVHFYIYVDRRTGQMV
 PSLSPNEKMSSELGKGPLAAFKAKVWALVRLARRYLQKGCTTLLFQEGDFRCSYFLWFENDMVGVP
 SLWAGRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC089331

ORF Size: 1902 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: [BC089331](#), [AAH89331](#)

RefSeq Size: 4235 bp

RefSeq ORF: 1904 bp

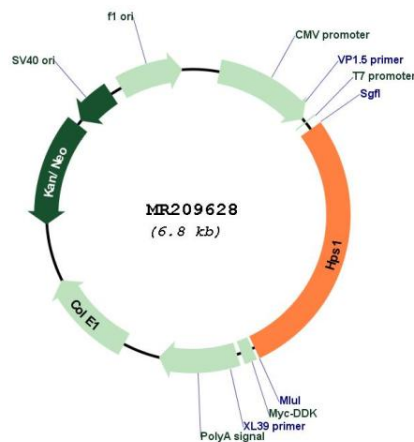
Locus ID: 192236

Cytogenetics: 19 36.56 cM

MW: 71.9 kDa

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]

Product images:



Circular map for MR209628