

## Product datasheet for MR211426

### Hps3 (NM\_080634) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hps3 (NM_080634) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hps3
Synonyms:	coa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211426 representing NM_080634 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCCTGTACAACCTGCACCCGTTGGGTGCGCAGCAGGTAGTCCCCTGCCAGTGGGAGCCGGAGC  
AGGTCTGCTGCGGCGGGAGCGACGCGTGTTCGTGGCTGCCGGCTGCAAGGTGGAGGCGTTCGCTGTTCA  
GGGCGAAGAGCTGTGCCGCGAGCGCTGCCCTTCTCCACGCTAGGCAGGGTGTGCGCATGGCCTACAGC  
GAAGCCGGAGACTATCTGGTAGCAATTGAGGAGAAAAACAAAACATATTCCTGCGTGCTTACGTGAATT  
GGAGGAGTAAGAGGAGCGACAACCTCCCGTGTGTGCATTGCAATGGTTGGCCACAATGTGGAGGCATCCTT  
CTGTGAAAGCTTTAGAGACCAGATGTCTATAATTGAGATGCCAATGTCTGAGGCCCTTTGTGCTTTTCG  
TGTTGCTCCTGTGAAAGGAGATCTTCTTGTGGATGTACAATAAGTTAGTGTTATTTACTTTGAAGTATG  
ATATCATTAAATGAGGAATCTCAATATTGAACTTTGAACTTCATTAATTATACACATAGATAATATCAC  
TCCTGTTGAAATCTTTTTGTGTTGGATATGTTGCTGTCATGTCTGATTTAGAAGTCTTACTCCTAAAA  
CTGGAGTCAGACCCTATACATGGAGAGAGTGTGACCACCACCCACAAGAAACCAGCAATCCATTGAAAG  
AGGCGGAAGGTGTCAGTAATGAACTTCACAACCTGAGTCAGAAGATTTGTTATCTGTCTAAAACCCAT  
GAACTCATTGGTAAAAATGTGAACAGTCTGGGATATCTGTTAACTGGAGTCCACAGGATTAGAAGAT  
GAAAAAGTAAAAATTTACGTGTTGCGCATCTATTGTATAGACGTTTTGCTCCAGATATTTGCTCCTATG  
TCTTGTCTGATAACATCAAGTTACATTCCCTTCAGCTGCTACCCATTACCAAAGTGTTTTTCATCCTGA  
TGAAAAATGATTTATCGCCGAAAAAAGAGATGCCAATCTCTTCTGTTTCTCTCGTTACCTCATGTGGC  
TATCTGTACATGGTTGTGAAGTCTGTTGAATTAATGTCAGTCTATTGGTATCCTGAGAAGTCTCAACAAG  
CCGTGCTCACACCACAGTCTTGCATGTCATCACAAGCCAAAGCCTGCAGTGTTCACGGTGCGATGCGAG  
TGCAGCGGTGGCAGATGAGGAAGACCTATACATGGATACTACGCTAAAGGCTTGCCACCTGTCAGTATG  
GACGTTTGTGCTCTAAGGATACAGCTTTTCATAGGCTTGAAGCCATCTGTCACCTTTAAAAACCACATTA  
TACTTCTGACGAAGGCAGAGCCTGAGGCCATTCAGAGAGAAGAGAGTCAACCAAGAAACTTATTTCTAG  
AAAAGATGCCAGTGTTAGGAGCGGAACCCCTCACGTGGCTGAAGCGGCATGGAATCTGTATCTCGTGAAC



[View online »](#)

ACCACGGCACCAGTGCAGCTGTACAAAGAAATGGTAGACTATAGTAACAGCTACAAGACCGTGAAAACCG  
 AGAGCTGTCTCCACCTGCTCAGTGAGGCTCATCTGCTAGTGAGAGCTGCCCTGATGGATGGCAGTCAGCT  
 GGAGCCTGCAGAGAAAGCAGAACCTCTGGAAGCTTTTAAAGAAAGCTGTGGACACCTTGGAGACTGTTAC  
 AGCAGGCTTACCAGTGAACAATCCCATCTCGCCTTGCCGTAATAAGATGTCTGGTTTGTCTCTGGCTG  
 AAGTCTTGGCCCGTGTGGACTGGACAGAAGAGAGTGAATCACAGAAATATGAGAGAGGACTAGTATTTTA  
 TATTAATCATTCTCTTTATGAAAACCTGGATGAAGAATTAAGTAAAGAATTAGCAGCAAAAGTGGCTCAG  
 ATATTCACATGGCTGAGCCGAAGCAGCTGCCTCATGTTCTCTAGCCCTTCTATGAAGAATATTGATC  
 CCTTAACTGCCTTGCAATTTTAAAGGAAGCTGGATAGTTGTGGAGTTTACCCCGTCTTAGTGACCTTGAC  
 CAAGGCTGCAGTGGCCTTAAAAATGGGAGATCTTGACATGTACAGAAATGAGATGAAAAGCCATTGCGAG  
 ATGAAGCTGGTGTATGGCTTCATTCTGGAACCCCGGCTGTTAATCAACAGTGGAAAAGGACAGATTGTTT  
 CTACAGAACTTGGGATTGACTTGAAGGAACTCAGCCTGGATTGCTTGTGGCTTCACTCTGGGCTTACA  
 GAAGAATGATAAAATGGAAATGTAGAAACAGATTCTTTCTTAAAGTGTGTGTGGAAAGGATGAAGAC  
 GCAGTCCGCAGCTTTTATAGACTTCTGGGAAGCTCAGCTCGTAGCTTGTCTCCAAATGTGGTACTTG  
 AGGAACCTTTTTCAAGCTCATCTCTCAGTACGTTTGGAGTTATCTGAGAGGCGGTGTCCTGACACCGT  
 ACCACTGAGAACAGCGGAGGATTTGATAAATGCCTGCAGTCATTATGGCCTAGTAAATCCATGGGTTTCA  
 GTGTTAACGACATCTGATTCTTAACTGATGATAAAATACACAGACGACCTTCTGAAATTACAGTCTCTCA  
 TCTGTAGCCCTTATTGGACGTAGCCTCCATTATTCGGTTTTTGGAGCCACTCTCAGAAGACACTGTTGC  
 CGGCTCAGTACTCATGCTCTCTGCCATACACGCTTACAAGAGTATGAACAGTGCATAGACACGTTGCTA  
 GAGAGATGCCAGAGGCCGTCATTGCGTATGCTAATCAGGAAGTGAAGGAAGTCACTGGATTCTGTGGT  
 GGAAAAAGCTGCTGCCTGAGCTCTGCCAGAGAGTCAAGAGTGGTGGCGAGAGGTCCCACCTTACCTGTC  
 ATTTGTTAAAAGAAACCTTGTGCGTTATTGCTGTGGGACTGGACCTGAGGGATTTCTTGAATGTTCTCCA  
 GAAGATGGGCGAGCAGCATTTTTCTGCCCTACCTCCTTTCTGCAGCCGAAGAATCACTAACT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATTAAGTTTAA

**Protein Sequence:**

>MR211426 representing NM\_080634  
 Red=Cloning site Green=Tags(s)

MVRLYNLHPFGSQVVPQWEPEQVCCGSDALFVAAGCKVEAFVQGEELCRQRCFSTLGRVLRMAYS  
 EAGDYLVVAIEEKNTIFLFRAYVNWRSKRSRDNVRCIRMVGHNVESFCEFRDQMSIIEMPMSEAPLCSF  
 CCPVKGDLLVGCTNKLVLFTLKYDIINEEFSLNFRSLIIHIDNITPVEISFCVGYVAVMSDLEVLK  
 LESDPIHGESVDHHPQETSINPLKEAEGVSNETSQLESEDFVICLKMELIGEKCEQSGISVKLESTGLED  
 EKVKYLVRHLLYRRFAPDISSVYVSDNIKLSLQLLPIHQSGFHPDENDLSPKKEMPNFLCFFSLPHVG  
 YLYMVVKSVELMSVYWYPEKSQQAVLTPQFLHVITSQSLQCFTVRCSSAAVAHEEDLYMDTTLKACPPVSM  
 DVCALRIQLFIGLKAICHFKNHIIILLTKAEPEAIPERRESKPKLISRKDSVRSRGPVHVAEAAWNLVYLVN  
 TTAPVQLYKEMVDYSNSYKTVKTESCLHLLSEHLLVRAALMDGSQLEPAEKAELLEAFKESCGHLGDCY  
 SRLTTEQSHLALPYKMSGLSLAEVLARVDWTEESESQKYERGLVFYINHSLYENLDEELSKELAAKVAQ  
 IFHMAEPKQLPHVLSPPSMKNIDPLTALHYLRKLDSCGVSPLVTLTKAAVALKMGDLDMYRNEMKSHSE  
 MKLVYGFLEPRLLIQQWKGQIVPTELAIDLKETQPGLLVASVLGLQKNDKIGIVETDSFFKVLCKGDED  
 AVPQLLIDFWEAQLVACLPNVLEELFFKLSQYVWRLSERRCPDTPVPLRTAEDLINACSHYGLVNPWWH  
 VLTTSDSLADKNYTDDLKQLSICSPSLDVASIIIPFLEPLSEDTVAGLSTHALCHTRLQEYEQCIDTLL  
 ERCPEAVIAYANQELKEDHWILWKKLLPELCQRVKSGGERSHLHL SLLKETLSVIAVGLDLRDFLNLVLP  
 EDGAAFFLPYLLFCSRKKSLLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9088\\_f12.zip](https://cdn.origene.com/chromatograms/mm9088_f12.zip)

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_080634

ORF Size: 3006 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.

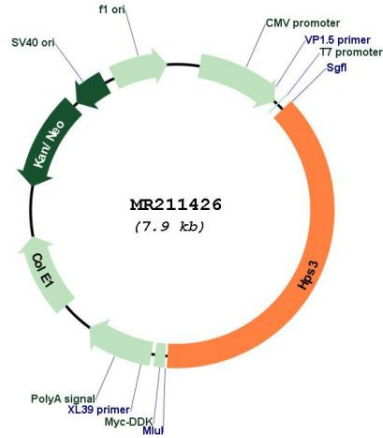
RefSeq: [NM\\_080634.4](#), [NP\\_542365.3](#)

RefSeq Size: 4011 bp

RefSeq ORF: 3009 bp

**Locus ID:** 12807  
**UniProt ID:** [Q91VB4](#)  
**Cytogenetics:** 3 6.12 cM  
**MW:** 113.2 kDa  
**Gene Summary:** Involved in early stages of melanosome biogenesis and maturation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211426