

Product datasheet for **MR221151**

Hps3 (NM_001146324) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hps3 (NM_001146324) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hps3
Synonyms:	coa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR221151 representing NM_001146324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCCTGTACAACCTGCACCCGTTTGGGTGCGAGCAGGTAGTCCCCTGCCAGTGGGAGCCGGAGC
 AGGTCTGCTGCGGCGGGAGCGACGCGCTGTTCTGGCTGCCGGCTGCAAGGTGGAGGCGTTCGCTGTTC
 GGGCGAAGAGCTGTGCCGCGAGCCTGCCCTTCTCCACGCTAGGCAGGGTGTGCGCATGGCCTACAGC
 GAAGCCGGAGACTATCTGGTAGCAATTGAGGAGAAAAACAACTATATTCCTGCGTGCTTACGTGAATT
 GGAGGAGTAAGAGGAGCGACAACCTCCGCTGTGTCATTGCAATGGTTGGCCACAATGTGGAGGCATCCTT
 CTGTGAAAGCTTTAGAGACCAGATGTCTATAATTGAGATGCCAATGTCTGAGGCCCTTTGTGCTTTTCG
 TGTTGCTCTGTAAGGAGATCTTCTTGTGGATGTACAATAAGTTAGTGTATTTACTTTGAAGTATG
 ATATCATTAAATGAGGAATCTCAATATTGAACCTTGAACGTTTCAATTAATACACATAGATAATATCAC
 TCCTGTTGAAATCTTTTTGTGTTGGATATGTTGCTGTCATGTCTGATTTAGAAGTCTTACTCCTAAAA
 CTGGAGTCAGACCTATACATGGAGAGAGTGTGACCACCACCCACAAGAAACCAGCAATCCATTGAAAG
 AGCGGAAAGGTGTCAGTAATGAACTTCACAACCTTGAAGTCAAGATTTTGTATCTGTCTAAAACCCAT
 GAACTCATTGGTAAAAATGTGAACAGCTGGGATATCTGTTAACTGGAGTCCACAGGATTAGAAGAT
 GAAAAAGTAAATATTTACGTGTTCCGCATCTATTGTATAGACGTTTTGCTCCAGATATTTGCTCCTATG
 TCTTGTCTGATAACATCAAGTTACATCCCTTCAGCTGTACCCATTACCAAAGTGGTTTTATCCTGA
 TGAAAAATGATTTATCGCCGAAAAAGAGATGCCAAATCTTTCTGTTTCTTCTGTTACCTCATGTGGGC
 TATCTGTACATGGTTGTGAAGTCTGTTGAATTAATGTCAGTCTATTGGTATCCTGAGAAGTCTCAACAAG
 CCGTGTACACACACAGTCTTGCATGTCATCACAAGCCAAAGCCTGCAGTGTTCACGGTGCATGCAG
 TGCAGCGGTGGCACATGAGGAAGACCTATACATGGATACTACGCTAAAGGCTTGCCACCTGTCAATG
 GACGTTTGTGCTTAAGGATACAGCTTTTCATAGGCTTGAAGCCATCTGTCACTTTAAAAACCATTA
 TACTTCTGACGAAGGCAGAGCCTGAGGCCATTCCAGAGAGAAGAGAGTCAACCAAGAACTTATTTCTAG
 AAAAGATGCCAGTGTAGGAGCGGAACCCCTCACGTGGCTGAAGCGGCATGGAATCTGTATCTCGTGAAC
 ACCACGGCACCAGTGCAGCTGTACAAAGAAATGGTAGACTATAGTAACAGCTACAAGACCGTAAAAACCG
 AGAGCTGTCTCCACCTGCTCAGTGAAGCTCATCTGCTAGTGAAGCTGCCCTGATGGATGGCAGTCACT
 GGAGCTGCAGAGAAAGCAGAATCCTGGAAGCTTTTAAAGAAAGCTGTGGACACCTGGAGACTGTTAC
 AGCAGGTTGGTGAAGCCTCGTAAGCGTTGTTACAGAGTTTGCATGCACATAGCAGGCTTTTTTACCTCT
 GGGAGTTGGTTCGTTTTCTATTTGTTTCATAGGCATGCTATGTGCCCGTCCATATGTAGGTGTGTGGC
 AGGCTTAGAGGTACAGAGTGGATATGACTTACCCAGTGTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221151 representing NM_001146324
 Red=Cloning site Green=Tags(s)

MVRLYNLHPFGSQVVPQWEPEQVCCGSDALFVAAGCKVEAFVQGEELCRQRCAFSTLGRVLRMAYS
 EAGDYLVAIEEKNTIFLFRAYVNWRSKRSDNSRVCIRMGHNVEASFCEFRDQMSIIEPMPSEAPL.CFS
 CCPVKGDLLVGCTNKLVLFTLKYDIINEEFILNFERSLIIHIDNITPVEISFCVGYVAVMSDLEVLLLK
 LESDPIHGESVDHHPQETSINPLKEAGVSNETSQLESEDFVICLKPMELIGEKCEQSGISVKLESTGLED
 EKVKYLVRHLLYRRFAPDISSVYVSDNIKLSLQLLPIHQSGFHPDENDLSPKKEMPNFLCFFSLPHVG
 YLYMVKSVELMSVYWYPEKSQAVLTPQFLHVITSQSLQCFTVRCSSAAVAHEEDLYMDTTLKACPPVSM
 DVCALRIQLFVIGLKAICHFNHIIILLTKAEPEAIPERRESPPKLSRDKASVRSRGTGPHVAEAAWNLVYLVN
 TTAPVQLYKEMVDYSNSYKTVKTESCLHLLSEHLLVRAALMDGSQLEPAEKAELLEAFKESCGHLGDCY
 SRLVRPRKRCYRVLHAHSRLFYLWELVRFILICFVIGMLCARSICRCVAGLEVQSGYDLPSVF

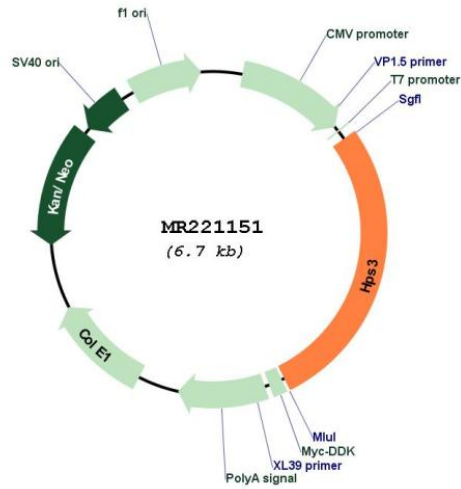
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146324

ORF Size: 1863 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:	<ol style="list-style-type: none"> 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_001146324.1 , NP_001139796.1
RefSeq Size:	2335 bp
RefSeq ORF:	1866 bp
Locus ID:	12807
Cytogenetics:	3 6.12 cM
MW:	70.8 kDa
Gene Summary:	Involved in early stages of melanosome biogenesis and maturation.[UniProtKB/Swiss-Prot Function]