

Product datasheet for MR221111

Hps5 (NM_001167864) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hps5 (NM_001167864) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hps5
Synonyms: A1646796; AL022647; C85120; haze; hz; maroon; mr; ru-2; ru2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR221111 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACTTTTGTGCCAGTGATACCAGAAGCCTACAGCCATGTTCTTGCAGAGTTTGAGTCCTTGGATCCGT
 TACTCACAGCCCTGAGGCTGGACTCCAGTCGTCTGAGGTGTACCAGCATAGCTGTGTCTCGAAATGGTT
 GCGGTTAGGCAGCACAGGAGGAGGACTCAATCTCATTAGAAAGATGGCTGGAAGCAAAGGCTGTTTCTC
 TCTCACCGGGAAGGGCAATCTCTCAGATTGCCTGCTGCTCATGATGATGATTATGTTGCTGTAGCTA
 CCAGTCAAGGCTTGTAGTTGTTTGGGAATTAATCAAGAGCGTCGTGGGAAGCCAGAACGAATTCATGT
 GTCCTCAGAACACAAAGGCCGAAAAGTTACTGCCTCTGTTGGGACACGGCTGTTCTGAGAGTCTTTGTC
 GGTGACCATGTGGCAAAGTATCTGCCATCAAACCTCAACACTTTGAAACAAGCAAAGCAGCTGCTGCCT
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 GAAATAAGGAAAGACATGGAGAATATGGGGCTGTTTCTTCCCGGGCGGTGTGCTGGGGCCAGCAGC
 CTGTGATCTACTGCGCCCGCCAGGCTCCCGGATGTTGGGAAGTGAACCTTACGCGGGAAGTGTCTCAGTAC
 ACCAGTTCAAGAAGCTCCTGTCAATGCCACCCCTCCCTGTGATCACTGCAAGATCAGAGCCTCAGTAT
 GATCACACAGTTGGATCCTCCAGTCTTTGGCATTCCCAAACTCTTGCATCTTAGTGAACACTGTGTGC
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CTAGCTTTGTGCGTAAAACACTACTGAGAAGATTGGCACCCCTTACGGAAGCCCGAGCTGAAAGAGCCTTT
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 GCACAAGGCCAGCTCCCCAGGAGTCACTAAACGGGAGCCTCAGTATGGGCCAGCCCTATCAATGTGGA
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 CTGGCTTGTAGTTGTCAGAAAAGTTACCAGAACCTGTGATATCCTGAGGATTGCTGAGAGAAGGCAGA
 GAGCGCTGATACAAGGCATGCTTGAAGAAGTGTACCGCTTCTCTGGTCCGACGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221111 protein sequence
 Red=Cloning site Green=Tags(s)

MTFVPIPEAYSHVLAEFESLDPLLTALRLDSSRLRCTSIIVSRKWLALGSTGGGLNLIQKDGWKQRLFL
 SHREGAISQIACCSHDDDYVAVATSQGLVVVWELNQERRGKPERIHVSSEHKGRKVTALCWDATAVLRVAV
 GDHVGVSAIKLNTLQAKAAAAFVMPVQTVLTVDSCVVQLDYLDRLLVSSLTRSFCDTEREFWKI
 GNKERHGEYGACFFPGRGAGGQPVIIYCARPGSRMWEVNFGEVLSTHQFKLLSMPPLPVITARSEPQY
 DHTVGSSQSLAFPKLLHLSEHCVLTWTEKGIYIFIPQNVQVLLWSEVKERLLRRGLWDLAARTCCCLFQNS
 IITSRARKTLTADKLEHLKSQLDLTACSELIQLDDLILRFEPLESACSSRRSSISSHESFSILDGSIYR
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 TEEKEIHQPPKEDRLQELTAATAEAMTKLLDPLVLFEPKVLRMVLEWLSQLKTFAMKDFPGISNTSSP
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 DLAELTTLCELVNLTSAMEVSGGHVDRASQQLSPEILACRFLKKYFFLLDLKRAKESIKLTYDSPCVWD
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 SDIAQLCRHHPAQFLAYLDSLKSRPEDQWPSFLEFLLQPESLRLEWLLAVSHDAPPSTSTVDDEGHPR
 PHSHLLSWGYSQILLLL IKLPADFTTKEKMTDICRSYGFWPGYLTLCLELERRREAFTNIVYLNDSLME
 GDNGWIPETLEEWKLLLHLLQTKSTRPAPQESLNGSLSDGPAPINVENVALLLAKAMGPDRAWSLLEQECG
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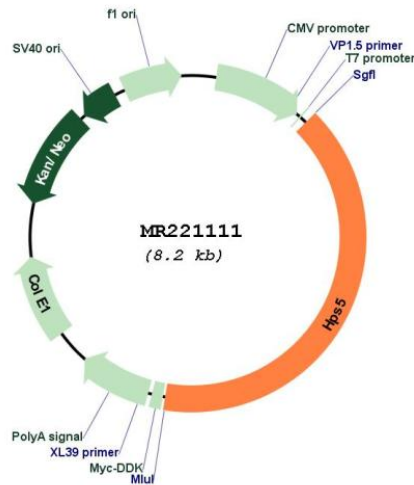
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001167864

ORF Size: 3279 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:	<u>NM_001167864.1, NP_001161336.1</u>
RefSeq Size:	4729 bp
RefSeq ORF:	3282 bp
Locus ID:	246694
UniProt ID:	<u>P59438</u>
Cytogenetics:	7 30.56 cM
MW:	122.6 kDa
Gene Summary:	May regulate the synthesis and function of lysosomes and of highly specialized organelles, such as melanosomes and platelet dense granules. Regulates intracellular vesicular trafficking in fibroblasts. May be involved in the regulation of general functions of integrins. [UniProtKB/Swiss-Prot Function]