

Product datasheet for **MR221499**

Hps6 (NM_176785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hps6 (NM_176785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hps6
Synonyms:	5330434M19Rik; BLOC2; ru
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR221499 representing NM_176785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCGTGCAGGAACCTGCGCCTGCTTTCGGATCTGAGCAACTTCACCGCGCGGCCCGGCTCCGCG
 AGTTGTTGGCGGGGACCCAGCTGTCTAGTCCGCTGCAGCCCTGACGGCCGCCACTTGCTGCTATTAAG
 ACCCCCCGGATCGCCCGCCACAGCTTCTAGTGGCTGTGCGTGGGCCCGGCTGCCGCTGGAGCGTGCC
 TGGCCGGAGGGGACCCCTCGCCGCTGGACGTCTTTTTCGTGCCGTGGCTGGCGGACCCGCGCTGATCT
 TGGTATGGGAGAGTGGCCTAGCAGAGGTTTGGGCGTGGGGATGGAGCCTGGATGGAAGCTACTTCAGAG
 CACTGAGCTGTGTCGGATGGTGGAGCCCGCTGATGGCCGTGGCCGAACCCGAGGCGCCCTAGTTTGG
 TGCGAGGAGCGTCAGCCGGGTGTTAAGGACCAACCAGAGCAGCTTCAACGGCCTTCAGCCACCGTGTGT
 GCTTCAAGACCCTGGAACCAGCGGGGAGGCTGGCACAACTAGGCTGCACCCACATCTGCTACACCA
 TTGCCCCCTTTTGGACTGATAGCTCCCGCAAGGACCTTCTTGGTGCCTACTACCAACTTGGTCT
 GGTGTGGCCACCTTCTGCTCATCTGGAGCCCAAGCAAGGGGAAGTAATAGTTGCTGCTCCATCTTTG
 GTCTTTCACACAGTAAAAGCCTGAATCCAAAACAGGGGACACTTGGGACTTCCGGACCCTGCTGCGAGG
 CCTTCTGGATTCTGTCCCCAGGGAGCCACTGGCTGTACACACTTGGGCCCATCTTCGAGGGCTTG
 TTGTTGCTTACTTGAAGGGAAGGTGAGCCTAGTGCAGTGCCATGGTGGTACTCGAACCCTGGGAATCC
 TGCAGGAGGCCCTGTAAGCCTAAAAGGCTGTCAGCCCTGGGGACATTCACGGCACTTACGCTGTGT
 CCTGGGCTCCACCTTGAACACTGAGCATGAGCAGTGGCGGCTGTTGGAAAAAGGTTCTCAGTACA
 GACAGAGTACATTTGCTGGAGCCTCCAGCCCGGGCATGAAGAACGAGGAAGAGCTGGAGACCCGAGGAG
 CCTACGATTGCTTTCAGCCTTGGGTCTCTTTTGTGTGTTGGGAACTCCCAAGGCCCTTGGAGTGC
 TTCAGACAAGGACCTGGTGTGTTGAGGAGCCTGTGGGTACTACCAGCGTCGGAGCCTTCGAGGTACCCAG
 CTTACCCCAAGAAGTGAACACAACAGCATGTTTCGGGCACCTCAGGCCCTGGCCTCCATCTCCAGG
 GCCACCTGCCCGCTCTACACTCCTGACAACTGAGGGCTGAGCTCCGGGATTATCGTAGTATAGAACA
 GCTCAAGGCCAGCTGGTGGCTGGGACGATGAGGAGGCTGGCTGGACTGAGTTAGCGGAGCAGGAGGTG
 GCCCGCTGTGAGAACCAGTTGACAGGAGACCAGCTGGCCCAATTCAACACCATTTTCCAAGCCCTTC
 CTACAGCAGCTTGGGTGCCACCCTCCAGGCACTGCAGCTCCAGCCAGATAGGAGTGGCAGGCTGAGGT
 CCAAGCACCCCGGATGTATGGAAGAAGTCTAAGGGCTCCAACAGCTGGAAGGAACATCCCAATGGA
 ATACTGCCGCCCTTTGAACTCCTGTGTGCTGAGTGCCTGGGCCAGCTCGAGCCTCAGTGGCTCCCCCATTTG
 TGAACCTGGCACAGCAGCAGGTTGGCCCGGCTGGGGGGCTGAAGGCCCAAGTCTGCCCTTTACCGCCG
 AGCCCTGGCAGTCTAGGTGAGGAAGGGAAGAGGCTGAGGCTCTGGAACCTCGAGTTGCTTTTGGGCA
 GGGCGACCCAAAGCCGTGCTACAAGCTGTAAGGCAGCTGATAAAGAAAGAAGAGTGGGAACGGGCTCTGG
 AAGCCGGGCTGGCCCTGGATGCCTCCAGCCCTGCTTGAAGTGAAGTCTTTAAGCTGTGCTGGCAGA
 GTTTGCCAGCACCGCCGCTGGATGCACACCTCCCTCTCTCTGCTGCTGCCACCCGGAAGTGGCT
 CCACATGAGCTCCTACTTCTGCTGAGGACACATCTCCAGATGATGAGGGAACCCCTTTCCCTGAGC
 CTGGGGCAGAGCCCTCTCACAGTGGGCTTGGTCCAGCCCTGCTAGAACAGACTGGGGCTCAAGGAAG
 GCCGTCTGGCCAGTTCAAAGCACCTATGAGGACATCTTATGGGACCCAGGCACTCCACCCCTACACCA
 CCTCGTGAGCCACTGCTTCTCTCCCGCATCAGACCATCCAGGACAAGAAGCCTGGGTACCACCTGGAC
 AAGGGCTCGGTGCAGCTGATGTGGGAGTTCATTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221499 representing NM_176785
Red=Cloning site Green=Tags(s)

MKRAGTLRLLSDLSNFTGAARLRELLAGDPAVLVRCSPDGRHLLLLRPPGSPAPQLLVAVRGPGLPLERA
WPEGDPSPLDVFFVPWLARPALILVWESGLAEVWVGMEPGWKLLQSTELCPDGGARVMAVAATRGLVW
CEERQPGVKDQPEQLSTAFSHRVCFKTLETSGEAGTKLGCTHILLHHCLPLFGLIASRKDLFLVPTTNTWS
GVAHLLLIIWSPSKGKVIIVAAPSLGLSHSKSLNPKQGDWDFRTLLRGLPGFLSPREPLAVHTWAPSSQGL
LLLDLKGKVS LVQCHGGTRTVGILQEAPVSLKGS AALGTFHGTACVLGSTLELLDMSSGRLLLEKKVLS
DRVHLLLEPPAPGMKNEEELETRGALRLLSALGLFCVCWETPQGLELPSDKDLVFEEACGYQRRSLRGTQ
LTPEELRHNSMFRAPQALASILQGHLPPSTLLTTLRAELRDYRSIEQLKAQLVAGDDEEAGWTELAHEV
ARLLRTQLTGDQLAQFNTIFQALPTAAWGATLQALQLQPDRSGRLRSQAPPDVWKKVLRAPTAGKEHPNG
ILPPFELLQCLGQLEPQWLPPFVKLAQQGGPGWGAEGPSLPLYRRALAVLGEEGKRPEALELELLLS
GRP KAVLQAVRQLIKKEEWERALEAGLALDASSPLL RSEIFKLLLAEFAQHRR LDAHLPLL CRLCPPEVA
PHELLLLLRTHLPDDEGTTFFPEPGAEPPLTVGLVRALLEQTGAQGRPSGPVQSTYEDILWDPGTPPPTP
PRGPTASLPASDHPGQEA WPPGQGLGAADVGVHL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9094_h05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_176785

ORF Size: 2415 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_176785.3](#), [NP_789742.2](#)

RefSeq Size: 2696 bp

RefSeq ORF: 2418 bp

Locus ID: 20170

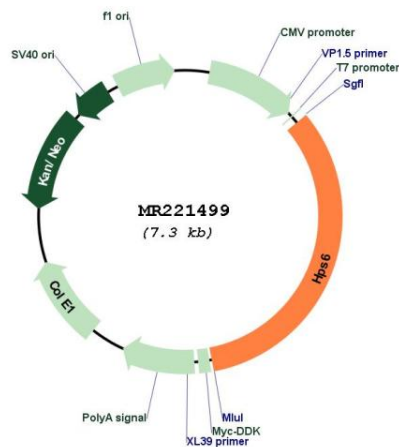
UniProt ID: [Q8BLY7](#)

Cytogenetics: 19 38.75 cM

MW: 87.3 kDa

Gene Summary: May regulate the synthesis and function of lysosomes and of highly specialized organelles, such as melanosomes and platelet dense granules (By similarity). Acts as cargo adapter for the dynein-dynactin motor complex to mediate the transport of lysosomes from the cell periphery to the perinuclear region. Facilitates retrograde lysosomal trafficking by linking the motor complex to lysosomes, and perinuclear positioning of lysosomes is crucial for the delivery of endocytic cargos to lysosomes, for lysosome maturation and functioning (PubMed:25189619).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221499