

## Product datasheet for **MG221499**

### Hps6 (NM\_176785) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Hps6 (NM_176785) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | Hps6                                    |
| Synonyms:                 | 5330434M19Rik; BLOC2; ru                |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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ORF Nucleotide  
Sequence:

>MG221499 representing NM\_176785  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAAGCGTGCAGGAACCTGCGCCTGCTTTCGGATCTGAGCAACTTCACCGGCGCGGCCGGCTCCGCG  
AGTTGTTGGCGGGGACCCAGCTGTCTAGTCCGCTGCAGCCCTGACGGCCGCCACTTGCTGCTATTAAG  
ACCCCCGGATCGCCCGCCACAGCTTCTAGTGGCTGTGCGTGGGCCCGGCCTGCCGCTGGAGCGTGCC  
TGGCCGGAGGGGACCCCTCGCCGCTGGACGTCTTTTTCGTGCCGTGGCTGGCGGACCCGCGCTGATCT  
TGGTATGGGAGAGTGGCCTAGCAGAGGTTTGGGCGTGGGGATGGAGCCTGGATGGAAGCTACTTCAGAG  
CACTGAGCTGTGTCGGATGGTGGAGCCCGCTGATGGCCGTGGCCGCAACCCGAGGCGCCCTAGTTTGG  
TGCGAGGAGCGTCAGCCGGGTGTTAAGGACCAACCAGAGCAGCTTCAACGGCCTTCAGCCACCGTGTGT  
GCTTCAAGACCCTGGAACCAGCGGGGAGGCTGGCACAACTAGGCTGCACCCACATCCTGCTACACCA  
TTGCCCCCTTTTGGACTGATAGCCTCCGCAAGGACCTTCTTGGTGCCTACTACCAACTTGGTCT  
GGTGTGGCCACCTTCTGCTCATCTGGAGCCCAAGCAAGGGGAAGTAATAGTTGCTGCTCCATCTTTG  
GTCTTTCACACAGTAAAAGCCTGAATCCAAAACAGGGGACACTTGGGACTTCCGGACCCTGCTGCGAGG  
CCTTCTGGATTCTGTCCCCAGGGAGCCACTGGCTGTACACACTTGGGCCCATCTTCGAGGGCTTG  
TTGTTGCTTACTTGAAGGGAAGGTGAGCCTAGTGCAGTGCCATGGTGGTACTCGAACCGTGGGAATCC  
TGCAGGAGGCCCTGTAAGCCTAAAAGGCTGTCAGCCCTGGGGACATTTACGGCACTTTCAGCCTGTGT  
CCTGGGCTCCACCTTGAACACTGAGCATGAGCAGTGGCGGCTGTTGGAAAAAGGTTCTCAGTACA  
GACAGAGTACATCTGCTGGAACCTCCAGCCCGGGCATGAAGAACGAGGAAGAGCTGGAGACCCGAGGAG  
CCCTACGATTGCTTTCAGCCTTGGGTCTTGTGTGTGTTGGGAACTCCCAAGGCCTTGGAGTGGC  
TTCAGACAAGGACCTGGTGTGTTGAGGAGCCTGTGGGTACTACCAGCGTCGGAGCCTTCGAGGTACCCAG  
CTTACCCAGAAGAACTGAGACACAACAGCATGTTTCGGGCACCTCAGGCCCTGGCCTCCATCCTCCAGG  
GCCACCTGCCCCGCTCTACACTCCTGACAACTGAGGGCTGAGCTCCGGGATTATCGTAGTATAGAACA  
GCTCAAGGCCAGCTGGTGGCTGGGACGATGAGGAGGCTGGCTGGACTGAGTTAGCGGAGCACGAAGTG  
GCCCGCTGCTGAGAACCAGTTGACAGGAGACCAGCTGGCCCAATTCAACACCATTTTCCAAGCCCTTC  
CTACAGCAGCTTGGGTGCCACCCTCCAGGCACTGCAGCTCCAGCCAGATAGGAGTGGCAGGCTGAGGTC  
CCAAGCACCCCGGATGTATGGAAGAAGTCTAAGGGCTCCAACAGCTGGAAGGAACATCCCAATGGA  
ATACTGCCGCCCTTGAACCTCTGTGTCAGTGCCTGGGCCAGCTCGAGCCTCAGTGGCTCCCCCATTTG  
TGAACCTGGCACAGCAGCAGGGTGGCCCGGCTGGGGGGCTGAAGGCCCAAGTCTGCCCTTTACCGCCG  
AGCCCTGGCAGTCTAGGTGAGGAAGGAAGAGGCTGAGGCTCTGGAACCTCGAGTTGCTTTTGGGCACT  
GGGCGACCCAAAGCCGTGCTACAAGCTGTAAGGCAGCTGATAAAGAAAGAAGAGTGGGAACGGGCTCTGG  
AAGCCGGGCTGGCCCTGGATGCCTCCAGCCCTGCTTCAAGTGAAGTCTTTAAGCTGCTGCTGGCAGA  
GTTTGGCCAGCACCGCCGCTGGATGCACACCTCCCTCTCCTCTGTCGCTGTGCCACCGGAAGTGGCT  
CCACATGAGCTCCTACTTCTGCTGAGGACACATCTCCAGATGATGAGGGAACCCCTTTCCCTGAGC  
CTGGGGCAGAGCCCCCTCACAGTGGGCTTGGTCAGAGCCCTGCTAGAACAGACTGGGGCTCAAGGAAG  
GCCGTCTGGCCAGTTCAAAGCACCTATGAGGACATCTTATGGGACCCAGGCACTCCACCCCTACACCA  
CCTCGTGGACCCACTGTTCTCTCCCGCATCAGACCATCCAGGACAAGAAGCCTGGGTACCACCTGGAC  
AAGGGCTCGTGCAGCTGATGTGGGAGTTCATTTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG221499 representing NM\_176785  
Red=Cloning site Green=Tags(s)

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MKRAGTLRLLSDLSNFTGAARLRELLAGDPAVLVRCSPDGRHLLLLRPPGSPAPQLLVAVRGPGLPLERA
WPEGDPSPLDVFFVPWLARPALILVWESGLAEVWVGMEPGWKLLQSTELCPDGGARVMAVAATRGLVW
CEERQPGVKDQPEQLSTAFSHRVCFKLTLETSGEAGTKLGCTHILLHHCLPLFGLIASRKDLFLVPTTNTWS
GVAHLLLIIWSPSKGKVIIVAAPSLGLSHSKSLNPKQGDWDFRTLLRGLPGFLSPREPLAVHTWAPSSQGL
LLLDLKGKVS LVQCHGGTRTVGILQEAPVSLKGS AALGTFHGTACVLGSTLELLDMSSGRLLLEKKVLST
DRVHLLLEPPAPGMKNEEELETRGALRLLSALGLLCVCWETPQGLELPSDKDLVFEEACGYQRRSLRGTQ
LTPEELRHNSMFRAPQALASILQGHLPSTLLTTLRAELRDYRSIEQLKAQLVAGDDEEAGWTELAHEV
ARLLRTQLTGDQLAQFNTIFQALPTAAWGATLQALQLQPDRSGRLRSQAPPDVWKKVLRAPTAGKEHPNG
ILPPFELLQCLGQLEPQWLPPFVKLAQQGGPGWGAEGPSLPLYRRALAVLGEEGKRPEALELELLLS
GRP KAVLQAVRQLIKKEEWERALEAGLALDASSPLL RSEIFKLLLAEFAQHRR LDAHLPLL CRLCPPEVA
PHELLLLL RTHLPDDEGTT PFPPEPGAEPPLTVGLVRALLEQTGAQGRPSGPVQSTYEDILWDPGTPPPTP
PRGPTASLPASDHPGQEA WPPGQGLGAADVGVHL
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

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

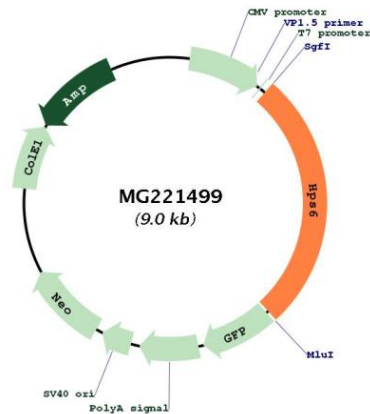
**Locus ID:** 20170

**UniProt ID:** [Q8BLY7](#)

**Cytogenetics:** 19 38.75 cM

**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 MG221499