

## Product datasheet for **MC218399**

### Vps53 (BC034371) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vps53 (BC034371) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps53
Synonyms:	RP23-147P4.2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC034371  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGAGGAGGAGGAAGTGGAGTTTGTGGAGGAGCTGGAGGCTGTGCTGCAGCTCACGCCAGAGGTGC  
 AACTCGCCATCGAGCAGGTATCCCAAGCCAGGATCCTCTTGATCAAGCTGACTTCAATGCCGTTGAGTA  
 TATCAATACTCTGTTCCCAACAGAGCAATCTCTGGCAAACATTGACGATGTTGTGAACAAAATTAGACTG  
 AAAATAAGGAGACTGGATGACAATATCCGGACTGTCGTAAGAGGTGAGACAAATGTGGGCGAGGATGGAA  
 GGCAAGCACTTGAAGAGGCCAGAAAGCCATTCAGCAACTCTTTGGCAAATCAAGGATATCAAAGACAA  
 AGCAGAAAAGTCAGAACAATGGTGAAGAGATCACCCGAGATATTAAGCAGTTAGATCACGCCAAGCGC  
 CACCTGACCACCTCAATCAGACCCTGAACCACCTGCACATGCTGGCAGGCGGGTGGACTCCCTGGAAG  
 CCATGACCAGGCGCAGACAGTATGGAGAAGTTGCTAATCTCCTTCAGGGTGAATGAATGTTCTGGAGCA  
 CTTTCACAAATACATGGGAATCCACAGATCCGACAGCTTCTGAAAGGGTGAAGGCTGCACAGACAGAG  
 TTAGGACAGCAAATCCTGGCTGACTTTGAAGAAGCGTTTCCTTCGAGGGTACCAAGCCGAAAGCCCA  
 AGGCCCGGACAACCCGTTCCACGGCATCGTTTCCAAGTGTGGAGCCTCATCTCTACGTGACATTGA  
 GTCCCAGGACAAAACCTCAGCGAGCTGATAGACCGGTTTGTGGCAGATTTCAAAGCCAGGGCCCAACC  
 AAGCCCAACACTGACGAAGGGGGTGTGTGCTCCCGAGCTGCGCTGACCTCTTTGTCTACTACAAGAAGT  
 GCATGGTGCAGTGTGACAGCTCAGCACAGGCGAGCCATGATCGCCCTGACTACCATCTCCAGAAGTA  
 CCTCCGAGAATACGCCTGGAATACTCTCTGGCAACCTGCCTAAAACCAGCAGCAGCAGTGGGGGGCTG  
 ACCATCAGCAGCCTCCTCAAAGAGAAGGAGGGCTCAGAAGTGGCCAGGTTCACTCTGGAGGAGCTGTGTC  
 TCATCTGCAGCATCCTGAGCACAGCCGAGTATTGTCTGGCTACCAACCAGCAGCTAGAAGAAAACTCAA  
 AGAAAAAGTTGATGTGAGCCTGACTGAACGAATTAATCTCACAGGAGAAAATGGACACATTACGACTGTC  
 ATCTCCAGCAGCATCCAGCTGTTGGTTCAAGATCTGGATGCAGCCTGTGACCCTGCCCTGATTGCCATGA  
 GCAAGATGCCTTGGCAGAACGTGGAGCATGTTGGTGACCAGAGCCCTTATGTCACCTTCTGTTATTCTTCA  
 CATTAAAGCAAAACGTCCCATCATCCGTGACAACCTGGCTTCCACACGGAAATACTTCACACAGTTCTGC  
 ATTAATTTGCAAATTCGTTTATTCCCAAATTCATCACCCACCTCTTCAAGTGAAGCCGATCAGCATGG  
 TGGGAGCAGAGCAGCTTCTGCTGGACCCCACTCCCTGAAGATGGTCTGCTCGACCTCCGTCATTGG  
 CTCCCAGGTGGTGAAGGAGCCCTGCCAGTTACTAAGATTGTCGTGAAAGGCATGACCCGGGCTGAA  
 ATGATCCTTAAGGTGGTGTGATGGCCCTCATGAACCGTTGGTGGTATTTGTTGACAACTACATCAAATCC  
 TTACGGACTGCAACTCAGAAACCTTCCAGAAAATACTGGATATGAAGGGGCTGAAGAGGAGTGAAGCAGAG  
 CAGCATGCTGAACTTTTGCAGGAGGCTCCCTGCCCGCCCTCGGGGACAGAAGGTTCCAGCACCCCTG  
 TCGCTGATTGCCCAACACCGGAGCAGGAGTCATCCCGAATCCGCAAATGGAGAAAATGATTAATAAGA  
 GACTGTAA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTGTAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** BC034371

**Insert Size:** 1968 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC034371](#), [AAH34371](#)

**RefSeq Size:** 2225 bp

**RefSeq ORF:** 1967 bp

**Locus ID:** 68299

**Cytogenetics:** 11 B5

**Gene Summary:** Acts as component of the GARP complex that is involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN). The GARP complex is required for the maintenance of the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD. Acts as component of the EARP complex that is involved in endocytic recycling. The EARP complex associates with Rab4-positive endosomes and promotes recycling of internalized transferrin receptor (TFRC) to the plasma membrane.[UniProtKB/Swiss-Prot Function]