

## Product datasheet for **MC221127**

### Vps52 (NM\_172620) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vps52 (NM_172620) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps52
Synonyms:	ARE1; D130068D18; D430041K17Rik; SAC2; Sacm2l; tclw5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221127 representing NM\_172620  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCCGCAGCGACCATGGCGGCCGCTGCCGGGAGCTGGTGTTCGGGGCTGGGGCCTCAGATGTAG  
 AGGAGGAGGAGGGCCCGCTGGGGGGGGTTCTGGACTCCAAGAACCCTACAACCTGGAGAGTTGGACAT  
 CACCTCTGATGAATTCATCTTGATGAAGTGGATGTTACATCCAGGCAAACCTGGAGGATGAGTTAGTG  
 AAGGAAGCTCTAAAACGGGTGTGGATCTTCGACACTATCAAAGCAGGTGGAGCTGGAGCTGCAGCAGA  
 TTGAGCAGAAGTCAATCCGGGACTATATCCAAGAGAGTGAACACATAGCGTCTCTGCACAATCAGATCAC  
 GGCCTGTGACGCCGCTCTGGAGCGCATGGAACAGATGCTGGGAGCTTTTCAGAGCGATCTCAGCTCCATC  
 AGCTCTGAGATCCGAACCCTGCAGGAGCAGTCGGGGGCCATGAACATCCGACTTCGTAACCGACAGGCAG  
 TTCGGGGGAAACTTGGGAACTTGTGGATGGGCTGGTGGTGCCCTCTGCTCTGGTCACAGCAATTCTGGA  
 AGCTCCAGTGACCGAGCCAGGTTCTGGAGCAGCTACAGGAGCTGGATGCCAAGGCAGCCGCGGTGAGA  
 GAGCAGGAGGCTATGGGCACCGCTGCCTGTGCTGACGTCAGAGGCGTGCTGGACCGGCTCCGGGTCAAGG  
 CAGTGACGAAGATCCGGGAGTTTATTCTCCAGAAGATCTACTCCTTCAGAAGGCCATGACCAACTACCA  
 GATCCCCCAGGCGGCCCTGCTGAAGTACAGTTTTTCTATCAGTTCCTGCTGGTAATGAGCGTGTCTACA  
 GCCAAGGAGATCAGGGATGAGTACGTAGAGACGCTGAGCAAGATCTACCTGTCCTACTACCGATCCTATG  
 TGGGGCGGCTCATGAAAGTGCAGTACGAGGAAGTTGCTGAGAAAGACGACCTAATGGGTGTTGAGACAC  
 AGCAAAGAAAGGCTTCTCTCGAAGCCGTCCTCCGAAGCAGGAACACCATCTTTACCCTTGGCACTCGT  
 GGTAAGTGCATCTACCGGCCGAGCTGGAGGCCCCATCCTAGTGCCCACTACTGCCAACGTTGGAGAGC  
 AGAGGTATCCATTGCAAGCGCTCTCCGACGCCAGCACTATGCCCTCCTCGACAATTCTTGCCGTGAATA  
 TCTTTTCATCTGTGAATTTTTTCATCGTGTCTGGCCCGGCTGCACATGACCTGTTCCACCGCTCATGGGC  
 CGCACGCTCTCCATGACGCTGAAACACCTGGAGTCTACCTGGCTGACTGCTACGATGCCATTGCTGTTT  
 TTCTCTGTATCCACATTGTTCTCCGGTTCGCAACATTGCAGCGAAGAGGGACGTCCTGCCCTGGACAG  
 GTACTGGGAGCAGGTGCTTGCTGTGGCCTCGGTTTGGAGCTGATCCTGGAGATGAATGTCCAGAGT  
 GTCCGACGACTGACCCCGAGCCTTGGGGGACTGGACACTCGGCCCACTATATCACACGCCGCTATG  
 CTGAGTTCCTCTGCACTTGTGACGATCAACCAGACGATCCCAATGAACGCACGCTGCAGCTCCTGGG  
 ACAGCTCCAGGTGGAGGTGGAGAATTTTGTCTCCGAGTGGCTGCAGAGTTCCTCCAGGAAGGAGCAG  
 CTTGTGTTTCTGATCAACAATATGACATGATGCTCGGGTGTGATGGAGCGGGCTGCTGATGACAGCA  
 AAGAGGTGGAAAGTTTCCAGCAGCTGCTCAATGCTCGGACACAGGAGTTCATTGAGGAGCTGCTGTCTCC  
 CCCCTTCGGGGTCTGGTGGCATTCTGTAAGGAGGCTGAAGCCTTGATTGAGCGTGGGCAGGCTGAGCGG  
 CTCCGAGGGGAGGAAGCCGAGTCACTCAGCTGATCCGTGGCTTTGGTAGTTCCTGGAAGGCATCAGTGG  
 AGTCCCTGAGTCAAGATGTAATGCGAAGTTTTACCAACTCCGAAATGGAACCAGCATCATCCAGGGGGC  
 GCTGACCCAGCTGATCCAGCTCTACCATCGTTCCACCGGGTGTGTCTCAGCCCCAGCTCCGCGCACTC  
 CCGGCCAGGGCCGAGCTCATCAACATCCATCACCTCATGGTGGAGCTGAAGAAACACAAGCCGAACCTCT  
 GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_172620

**Insert Size:** 2172 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_172620.3</a></u> , <u><a href="#">NP_766208.2</a></u>
<b>RefSeq Size:</b>	2766 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	224705
<b>UniProt ID:</b>	<u><a href="#">Q8C754</a></u>
<b>Cytogenetics:</b>	17 B1
<b>Gene Summary:</b>	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]