

## Product datasheet for **MC221945**

### Vps53 (NM\_026664) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vps53 (NM_026664) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps53
Synonyms:	2010002A08Rik; 2310040I21Rik; 3100002B05Rik; Hccs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221945 representing NM\_026664  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATGGAGGAGGAACTGGAGTTTGTGGAGGAGCTGGAGGCTGTGCTGCAGCTCACGCCAGAGGTGC  
 AACTCGCCATCGAGCAGGTATCCCAAGCCAGGATCCTCTTGATCAAGCTGACTTCAATGCCGTTGAGTA  
 TATCAATACTCTGTTCCCAACAGAGCAATCTCTGGCAAACATTGACGATGTTGTGAACAAAATTAGACTG  
 AAAATAAGGAGACTGGATGACAATATCCGGACTGTCGTAAGAGGTGAGACAAATGTGGGCGAGGATGGAA  
 GGCAAGCACTTGAAGAGGCCAGAAAGCCATTCAGCAACTCTTTGGCAAATCAAGGATATCAAAGACAA  
 AGCAGAAAAGTCAGAACAATGGTGAAGAGATCACCCGAGATATTAAGCAGTTAGATCACGCCAAGCGC  
 CACCTGACCACCTCAATCAGACCCTGAACCACCTGCACATGCTGGCAGGCGGGTGGACTCCCTGGAAG  
 CCATGACCAGGCGCAGACAGTATGGAGAAGTTGCTAATCTCCTCAGGGTGAATGAATGTTCTGGAGCA  
 CTTTCACAAATACATGGGAATCCACAGATCCGACAGCTTCTGAAAGGGTGAAGGCTGCACAGACAGAG  
 TTAGGACAGCAAATCCTGGCTGACTTTGAAGAAGCATTTCCTTCGCAAGGTACCAAGAGGCGGGGAGGAC  
 CCAGCAATGTCCTGAGAGATGCTGTCCTGGTGGCTAATATTTGGACCCAGAATCAAACAGAAATCAT  
 CAAAAAGTTTATTAACAGCATCTATCAGAGTATCTAGTACTTTTCAAGAAAACCAAGATGTCGCCTGG  
 CTGGACAAAATTGACAGACGTTATGCTTGGGTGAAACGCCAGCTTGTGGACTATGAAGAGAAGTATGGCC  
 GGATGTTTCTCGGGAGTGGTGCATGACGGAGAGGATCTCAGTAGAGTTTTGCCACGTGACGAGGGCAGA  
 ACTTTCCAAAATCATGCGTGCCAGAGCTAAGGAAATTGAAGTGAATGCTTCTTTTGGCATCCAGAGA  
 ACAACCAACTTTGAGGGGTTTCTTGCAAAACGCTTCTCCGGTGCACCCTGACAGATGGAACCTGAAAA  
 AGCTGGAGTCCCACCACCATCTACCAATCCTTCTGGAAGATGAGACAAACCCAGAGATGGAGGAGCT  
 GGCTCTGGAGAAAAGGAGAGTTAGAGCAACCGAAGAAGCCCAAGGCCCGACAACCCGTTCCACGGCATC  
 GTTTCCAAGTGTGTTGAGCCTCATCTACGTGTACATTGAGTCCAGGACAAAAACCTCAGCGAGCTGA  
 TAGACCGTGTGGCAGATTTCAAAGCCAGGGCCACCCAAGCCCAACTGACGAAGGGGTGCTGT  
 GCTCCCCAGTGCCTGACCTCTTGTCTACTACAAGAAGTGCATGGTGCAGTGTCTCACAGCTCAGCACA  
 GGCGAGCCATGATCGCCTGACTACCATCTCCAGAAGTACCTCCGAGAATACGCTGGAAAATCTCTCT  
 CTGGCAACCTGCCTAAAACCAGCAGCAGCAGTGGGGGCTGACCATCAGCAGCTCCTCAAAGAGAAGGA  
 GGGCTCAGAAGTGCCAGGTTCACTCTGGAGGAGCTGTGTCTCATCTGCAGCATCTGAGCACAGCCGAG  
 TATTGTCTGGCTACCACCAGCAGCTAGAAGAAAACCTCAAAGAAAAGTTGATGTGAGCCTGACTGAAC  
 GAATTAATCTCACAGGAGAAATGGACACATTGAGCACTGTCATCTCCAGCAGCATCCAGCTGTTGGTTCA  
 AGATCTGGATGCAGCCTGTGACCCTGCCCTGATTGCCATGAGCAAGATGCCCTGGCAGAAGCTGGAGCAT  
 GTTGGTGACCAGACCCCTTATGTCACTTCTGTTATTCTTACATTAAGCAAAACGTCCCCATCATCCGTG  
 ACAACCTGGCTTCCACACGGAAATACTTACACAGTTCTGCATTAATTTGCAAATTCGTTCAATCCCAA  
 ATTCATCACCCACCTCTCAAGTGAAGCCGATCAGCATGGTGGGAGCAGAGCAGCTTCTGCTGGACACC  
 CACTCCCTGAAGATGGTCTGCTCGACCTCCGTCATTTGGCTCCCAGGTGGTGAAGGAGCCCTGCCA  
 GTTACACTAAGATTGTCGTGAAAGGCATGACCCGGCTGAAATGATCCTTAAGGTGGTGAATGGCCCTCA  
 TGAACCGTTGGTGGTATTTGTTGACAACTACATCAAACCTTACGGACTGCAACTCAGAAACCTTCCAG  
 AAAACTGGATATGAAGGGCTGAAGAGGAGTGAGCAGAGCAGCATGCTGGAACCTTTGCGGCAGAGGC  
 TCCTGCCCGCCCTCGGGACAGAAGTTCCAGCACCTGTGCTGATTGCCCAACACCGGAGCAGGA  
 GTCATCCCGAATCCGCAAACTGGAGAACTGATTAATAAGAGACT**GTAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_026664  
**Insert Size:** 2499 bp

<b>OTI Disclaimer:</b>	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>	<a href="#">NM_026664.3</a> , <a href="#">NP_080940.2</a>
<b>RefSeq Size:</b>	2816 bp
<b>RefSeq ORF:</b>	2499 bp
<b>Locus ID:</b>	68299
<b>UniProt ID:</b>	<a href="#">Q8CCB4</a>
<b>Cytogenetics:</b>	11 B5
<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]