

## Product datasheet for **MR215732**

### Vps52 (NM\_172620) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vps52 (NM_172620) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR215732 representing NM\_172620  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCCGACGACCATGGCGGCCGCTGCCGGGAGCTGGTGTTCGGGGCTGGGGCCTCAGATGTAG  
 AGGAGGAGGAGGGCCCGCTGGGGGGGGTTCTGGACTCCAAGAACCCTACAACCTGGAGAGTTGGACAT  
 CACCTCTGATGAATTCATCTTGATGAAGTGGATGTTACATCCAGGCAAACCTGGAGGATGAGTTAGT  
 AAGGAAGCTCTAAAACGGGTGTGGATCTTCGACACTATCAAAGCAGGTGGAGCTGGAGCTGCAGCAGA  
 TTGAGCAGAAAGTCAATCCGGGACTATATCCAAGAGAGTGAACACATAGCGTCTCTGCACAATCAGATCAC  
 GGCCTGTGACGCCGCTCTGGAGCGCATGGAACAGATGCTGGGAGCTTTTCAGAGCGATCTCAGCTCCATC  
 AGCTCTGAGATCCGAACCCTGCAGGAGCAGTCGGGGGCCATGAACATCCGACTTCGTAACCGACAGGCAG  
 TTCGGGGGAAACTTGGGAACTTGTGGATGGGCTGGTGGTGCCCTCTGCTCTGGTACAGCAATTCTGGA  
 AGCTCCAGTGACCGAGCCAGGTTCTGGAGCAGCTACAGGAGCTGGATGCCAAGGCAGCCGCGGTGAGA  
 GAGCAGGAGGCTATGGGCACCGCTGCCTGTGCTGACGTCAGAGGCGTGGTGGACCGGCTCCGGGTCAAGG  
 CAGTGACGAAGATCCGGGAGTTTATTCTCCAGAAGATCTACTCCTTCAGAAGGCCATGACCAACTACCA  
 GATCCCCCAGGCGGCCCTGCTGAAGTACAGTTTTTCTATCAGTTCCTGCTGGTAATGAGCGTGTACATA  
 GCCAAGGAGATCAGGGATGAGTACGTAGAGACGCTGAGCAAGATCTACCTGTCCTACTACCGATCCTATG  
 TGGGGCGGCTCATGAAAGTGCAGTACGAGGAAGTTGCTGAGAAAGACGACCTAATGGGTGTTGAAAGACAC  
 AGCAAAGAAAGGCTTCTCTCGAAGCCGTCCTCCGAAGCAGGAACACCATCTTTACCCTTGGCACTCGT  
 GGTACTGTCTATCACCAGCCGAGCTGGAGGCCCATCTAGTGCCCACTACTGCCAAGTGGAGAGC  
 AGAGGTATCCATTGGAAGCGCTCTCCGACGACGACTATGCCCTCCTCGACAATTCTTGCCGTGAATA  
 TCTTTTCATCTGTGAATTTTTCATCGTGTCTGGCCCGGCTGCACATGACCTGTTCCACGCCGTCATGGGC  
 CGCAGCTCTCCATGACGCTGAAACACCTGGAGTCTACCTGGCTGACTGCTACGATGCCATTGCTGTTT  
 TTCTCTGTATCCACATTGTTCTCCGGTTCGCAACATTGCAGCGAAGAGGGACGTCCTGCCCTGGACAG  
 GTACTGGGAGCAGGTGCTTGCTGTGGCCTCGGTTTGGAGCTGATCCTGGAGATGAATGTCCAGAGT  
 GTCCGACGACTGACCCCGAGCCTTGGGGGACTGGACACTCGGCCCACTATATCACACGCCGCTATG  
 CTGAGTTCTCTCTGCACTTGTGACATCAACCAGACGATCCCCAATGAACGCACGCTGCAGCTCCTGGG  
 ACAGCTCCAGGTGGAGGTGGAGAATTTTGTCTCCGAGTGGCTGCAGAGTTCTCCTCCAGGAAGGAGCAG  
 CTTGTGTTTCTGATCAACAATATGACATGATGCTCGGGTGTGATGGAGCGGGCTGCTGATGACAGCA  
 AAGAGGTGAAAAGTTTCCAGCAGCTGCTCAATGCTCGGACACAGGAGTTCATTGAGGAGCTGCTGTCTCC  
 CCCCTTCGGGGTCTGGTGGCATTCTGTAAGGAGGCTGAAGCCTTGATTGAGCGTGGGCAGGCTGAGCGG  
 CTCCGAGGGGAGGAAGCCGAGTCACTCAGCTGATCCGTGGCTTTGGTAGTTCTGGAAGGCATCAGTGG  
 AGTCCCTGAGTCAAGATGTAATGCGAAGTTTTACCAACTCCGAAATGGAACCAGCATATCCAGGGGGC  
 GCTGACCCAGCTGATCCAGCTCTACCATCGTTCCACCGGGTGTGTCTCAGCCCCAGCTCCGCGCACTC  
 CCGGCCAGGGCCGAGCTCATCAACATCCATCACCTCATGGTGGAGCTGAAGAAACACAAGCCGAACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_172620

**ORF Size:** 2169 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\\_172620.4](#)
**RefSeq Size:** 2766 bp

**RefSeq ORF:** 2172 bp

**Locus ID:** 224705

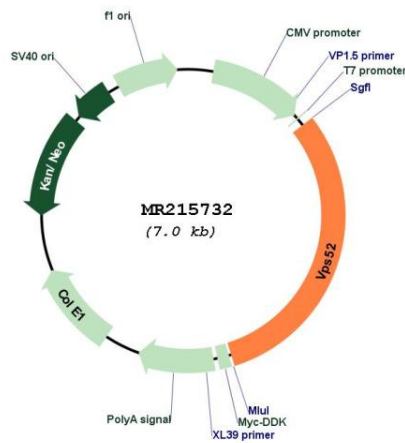
**UniProt ID:** [Q8C754](#)

**Cytogenetics:** 17 B1

**MW:** 82.5 kDa

**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]

**Product images:**



Circular map for MR215732