

## Product datasheet for **RG208017**

### VPS52 (NM\_022553) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS52 (NM_022553) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VPS52
Synonyms:	ARE1; dj1033B10.5; SAC2; SACM2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208017 representing NM\_022553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCGCTGCGACCATGGCGGCTGCGGCCCGGAACTGGTGTTCGGGCTGGGACCTCAGATATGG  
 AGGAGGAAGAGGGCCCGCTGGCGGGTGGTCTGGGCTCCAGGAACCACTGCAACTTGGGGAGTTGGATAT  
 CACTTCTGATGAATTCATCCTGGATGAAGTGGATGTTACATTCAGGCAAATCTGGAGGATGAGTTAGTA  
 AAGGAAGCTTTAAAACGGGTGTAGATCTCCGTCACTATCAAAGCAAGTTGAGCTGGAGCTACAGCAGA  
 TTGAACAGAAATCCATTCGGGATATATCAAGAGAGTGAGAATATAGCATCTCTACACAACCAGATCAC  
 AGCCTGTGATGCTGTCTGGAGCGAATGGAGCAGATGTTGGGAGCTTTTCAGAGTGACCTCAGCTCCATC  
 AGCTCTGAGATCCGGACTGCAGGAACAGTCAGGAGCCATGAACATTCGACTTCGAAATCGCCAGGCAG  
 TTCGGGGGAAACTTGGGAGCTTGTGATGGTCTGGTGGTGCCTTCTGCTCTGGTCACGGCAATTCTGGA  
 GGCTCCAGTGACAGAGCCAGGTTCTTGGAGCAGCTACAGGAGCTGGATGCCAAGGCAGCCGAGTCAGA  
 GAGCAGGAAGCTAGAGGCACAGCAGCCTGCGCAGATGTCAGAGGCGTGCTCGATCCGGCTCCGGGTCAAGG  
 CAGTGACGAAGATCCGAGAGTTTATCCTCCAGAAGATTTATCCTTCAGGAAACCATGACCAACTATCA  
 GATCCCCCAGACGGCCCTGCTGAAGTACAGGTTCTTCTATCAGTTTCTGTTGGGCAATGAACGAGCAACA  
 GCAAAGGAGATCAGGGATGAATATGTGGAGACGCTGAGCAAGATTTACCTGTCTTACTACCGCTCTTACC  
 TGGGGCGGCTCATGAAGTGCAGTATGAGGAAGTCGCTGAGAAAGATGATCTAATGGGTGTGAAGATAC  
 AGCAAAGAAAGGATCTTCTCAAAGCCATCGCTCCGCAGCAGGAACACCATTTTACCCTAGGAACCCGC  
 GGCTCTGTATCTCCCCACTGAACTTGAGGCCCATCTGGTGCCTCACACAGCGCAGCGCGGAGAGC  
 AGAGGTATCCATTTGAGCCCTCTCCGCAGCCAGCACTACGCCCTCTAGACAATTCCTGCCCGAATA  
 CCTTTTCATCTGTGAATTTTTTGTGTCTGGCCAGCTGCACACGACCTGTTCCATGCTGTCTATGGGC  
 CGTACACTCAGCATGACCCTGAAACACCTGGATTCTATCTAGCTGACTGCTACGATGCCATTGCTGTTT  
 TTCTCTGTATCCACATTGTTCTCCGTTCCGTAACATTGCAGCAAAGAGGGATGTTCTGCCCTGGACAG  
 GTACTGGGAACAGGTGCTTGCTTGCTATGGCCACGGTTTGAAGTATCCTGGAGATGAATGTTGAGAGC  
 GTCCGAAGCACTGACCCCGCGCTAGGGGGTTGGATACTCGGCCCACTATATCACACGCCGCTATG  
 CAGAGTTCTCCTCGCTTGTGTCAGTATCAACCAGACAATTCCTAATGAACGGACCATGCAATTGCTGGG  
 ACAGCTGCAGGTGGAGGTGGAGAATTTGTCTCCGAGTGGCAGCTGAGTTCTCCTCAAGGAAGGAGCAG  
 CTTGTGTTTCTGATCAACAACATGACATGATGCTGGGTGTGCTGATGGAGCGGGCTGCAGATGACAGCA  
 AAGAGGTTGAGAGCTTCCAGCAGCTGCTCAATGCTCGGACACAGGAATTCATTGAAGAGTTGCTGTCTCC  
 CCCTTTTGGGGTTTGTGGCATTGTGTAAGGAGGCTGAGGCTTTGATTGAGCGTGGACAGGCTGAGCGA  
 CTTGAGGGGAAGAAGCCCGGTAACCTAGCTGATCCGTGGCTTTGGTAGTTCTGGAAATCATCAGTGG  
 AATCTCTGAGTCAGGATGTAATGCGGAGTTTACCAACTTCAGAAATGGCACCAGTATCATTAGGGAGC  
 GCTGACCCAGCTGATCCAGCTCTATCATCGTTCCACCGGGTGTGTCCAGCCGAGCTCCGAGCCCTC  
 CCTGCCCGGCTGAGCTCATCAACATTCACCACCTTATGGTGGAGCTCAAGAAGCATAAGCCCAACTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208017 representing NM\_022553  
 Red=Cloning site Green=Tags(s)

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MAAAATMAAAARELVLRAGTSDMEEEEGLAGGPGLQEPLQLGELDITSDEFILDEVVDVHIQANLEDELV
KEALKTGVDLRHYSKQVELELQQIEQKSIRDYIQESENIALHNQITACDAVLERMEQMLGAFQSDLSSI
SSEIRTLQEQQSGAMNIRLNRNQAVRGKLGELVDGLVVPVSAVTAILEAPVTEPRFLEQLQELDAKAAAVR
EQEARGTAACADVRGVLDRLRVAVTKIREFILQKIYSFRKPMNTNYQIPQTALLKYRFFYQFLLGNERAT
AKEIRDEYVETLSKIYLSYYRSLGRLMKVQYEEVAEKDDLMGVEDTAKKGFFSKPSLRSRNTIFTLGTR
GSVISPTLEAPILVPHTAQRGEQRYPFREALFRSQHYALLDNSCREYLFICEFFVVSQPAADHDFHAVMG
RTL SMTLKHLD SYLADCYDAIAVFLCIHIVLFRFRNIAAKRDVPALDRYWEQV LALLWPRFELILEMNVQS
VRSTDPQRLGGLDTRPHYITRRYAEFSSALVSINQTI PNERTMQLL GQLQVEVENFVLRVAAEFSSRKEQ
LVFLINNYDMMLGVL MERAADDSKEVESFQQLLNARTQEFIEELLSPPFGLLVAFVKEAEALIERGQAE
LRGEEARVTQLIRGFGSSWKSSVESLSQDVMRSFTNFRNGTSIIQGALTQLIQLYHRFHRVLSQPQLRAL
PARAELINIHMLMVELKKHKPNF
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022553

**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\\_022553.4](#), [NP\\_072047.4](#)

**RefSeq Size:** 2990 bp

**RefSeq ORF:** 2172 bp

**Locus ID:** 6293

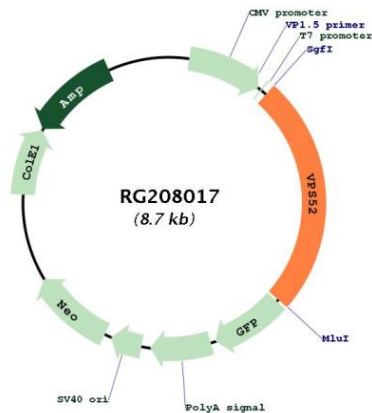
**UniProt ID:** [Q8N1B4](#)

**Cytogenetics:** 6p21.32

**Domains:** Vps52

**Gene Summary:** This gene encodes a protein that is similar to the yeast suppressor of actin mutations 2 gene. The yeast protein forms a subunit of the tetrameric Golgi-associated retrograde protein complex that is involved in vesicle trafficking from from both early and late endosomes, back to the trans-Golgi network. This gene is located on chromosome 6 in a head-to-head orientation with the gene encoding ribosomal protein S18. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

### Product images:



Circular map for RG208017