

Product datasheet for **RG239039**

VPS52 (NM_001289175) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS52 (NM_001289175) 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:

>RG239039 representing NM_001289175.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCAGATGTTGGGAGCTTTTCAGAGTGACCTCAGCTCCATCAGCTCTGAGATCCGGACACTGCAG
GAACAGTCAGGAGCCATGAACATTCGACTTCGAAATCGCCAGGCAGTTTCGGGGGAAACTTGGGGAGCTT
GTTGATGGTCTGGTGGTGCCTTCTGCTCTGGTACGGCAATTCTGGAGGCTCCAGTGACAGAGCCAGG
TTCTTGAGCAGCTACAGGAGCTGGATGCCAAGGCAGCCGAGTCAGAGAGCAGGAAGCTAGAGGCACA
GCAGCCTGCGCAGATGTCAGAGGCGTGCTCGATCGGCTCCGGTCAAGGCAGTGACGAAGATCCGAGAG
TTTATCTCCAGAAGATTTATTCCTTCAGGAAACCCATGACCAACTATCAGATCCCCAGACGGCCCTG
CTGAAGTACAGGTTCTTCTATCAGTTTCTGCTGGGCAATGAACGAGCAACAGCAAAGGAGATCAGGGAT
GAATATGTGGAGACGCTGAGCAAGATTTACCTGTCTTACTACCGCTTACCTGGGGCGGCTCATGAAG
GTGCAGTATGAGGAAGTCGCTGAGAAAGATGATCTAATGGGTGTGAAGATACAGCAAAGAAAGGATTC
TTCTCAAAGCCATCGCTCCGAGCAGGAACACCATTTTACCCTAGGAACCCGCGGCTCTGTCTATCC
CCCACTGAACTTGAGGCCCCATCCTGGTGCTCACACAGCGCAGCGGAGAGCAGAGGTATCCATTT
GAGGCCCTCTCCGAGCCAGCACTACGCCCTCTAGACAATTCCTGCCGGAATACCTTTTCATCTGT
GAATTTTTTGTGTGCTGGCCAGCTGCACACGACCTGTTCCATGCTGTGATGGCCGTACACTCAGC
ATGACCCTGAAACACCTGGATTCTATCTAGCTGACTGCTACGATGCCATTGCTGTTTTTCTGTATC
CACATTGTTCTCCGGTCCGTAACATTGCAGCAAAGAGGGATGTTCTGCCCTGGACAGGTAAGGGAA
CAGGTGCTTGCCCTGCTATGGCCACGGTTTGAAGTATCCTGGAGATGAATGTTTCAGAGCGTCCGAAGC
ACTGACCCCGAGCGCTAGGGGGTTGGATACTCGGCCCACTATATCACACGCCGCTATGCAGAGTTC
TCCTCCGCTCTTGTGAGTATCAACCAGACAATTCCTAATGAACGACCATGCAATTTGCTGGGACAGCTG
CAGGTGGAGGTGAGAAATTTGTCTCCGAGTGGCAGCTGAGTTCTCCTCAAGGAAGGAGCAGCTTGTG
TTTCTGATCAACAATATGACATGATGCTGGGTGTGCTGATGGAGCGGGTGCAGATGACAGCAAAGAG
GTTGAGAGCTTCCAGCAGCTGCTCAATGCTCGGACACAGGAATTCATTGAAGAGTTGCTGTCTCCCCCT
TTTGGGGTTTAGTGGCATTGTGAAGGAGGCTGAGGCTTTGATTGAGCGTGGACAGGCTGAGCGACTT
CGAGGGGAAGAAGCCCGGTAACAGCTGATCCGTGGCTTTGGTAGTTCCTGGAATCATCAGTGGAA
TCTCTGAGTCAGGATGTAATGCGGAGTTTACCAACTTCAGAAATGGCACCAGTATCATTAGGGAGCG
CTGACCCAGCTGATCCAGCTCTATCATCGTTCACCGGGTGTGCTCCAGCCGAGCTCCGAGCCCTC
CCTGCCGGGCTGAGCTCATCAACATTCACCACCTTATGGTGGAGCTCAAGAAGCATAAGCCCAACTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239039
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MEQMLGAFQSDLSSISSEIRTLQEQSGAMNIRLRNRQAVRGLGELVDGLVPSALVTAILEAPVTEPR
FLEQLQELDAKAAVREQEARGTAACADVRLDRLRVKAVTKIREFILQKIYSFRKPMNTYQIPQTAL
LKYRFFYQFLNGNERATAKEIRDEYVETLSKIYLSYRSYLGRLMKVQYEEVAEKDDLMGVEDTAKKGF
FSKPSLSRNTIFTLGTRGVSISPTLEAPILVPHTAQRGEQRYPFALFRSQHYALLDNSCREYLFIC
EFFVVSPPAAHDLFHAVMGRTLSMTLKHLDLSYADCYDAIAVFLCIHIVLRFNRNIAAKRDVPALDRYWE
QVLALLWPRFELILEMNVQSVRSTDPQRLGGLDTRPHYITRRYAEFSSALVSINQTIIPNERTMQLLQQL
QVEVENFVLRVAEAFSSRKEQLVFLINNYDMLGVLMEAAADDSKEVESFQQLLNARTQEFIEELLSPF
FGGLVAFVKEAEALIERGQAERLRGEEARVTQLIRFGSSWKSSVESLSQDVMRSFTNFRNGTSIIQGA
LTQLIQLYHRFHRVLSQPQLRALPARAELINIHMLMVELKHKPNF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001289175

ORF Size: 1794 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).

RefSeq: [NM_001289175.1](#), [NP_001276104.1](#)

RefSeq Size: 2727 bp

RefSeq ORF: 1797 bp

Locus ID: 6293

UniProt ID: [Q8N1B4](#)

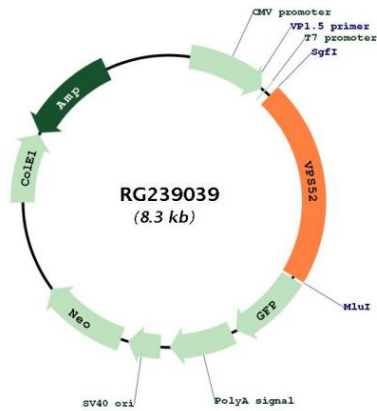
Cytogenetics: 6p21.32

MW: 68.9 kDa

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 RG239039