

Product datasheet for **RC208017**

VPS52 (NM_022553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS52 (NM_022553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS52
Synonyms:	ARE1; dj1033B10.5; SAC2; SACM2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208017 representing NM_022553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCGCTGCGACCATGGCGGCTGCGGCCCGGGAAGTGGTGTTCGGGCTGGGACCTCAGATATGG
 AGGAGGAAGAGGGCCGCTGGCGGGTGGTCTGGGCTCCAGGAACCACTGCAACTTGGGGAGTTGGATAT
 CACTTCTGATGAATTCATCCTGGATGAAGTGGATGTTACATTACAGCAAATCTGGAGGATGAGTTAGTA
 AAGGAAGCTTTAAAACGGGTGTAGATCTCCGTCACTATCAAAGCAAGTTGAGCTGGAGCTACAGCAGA
 TTGAACAGAAATCCATTCGGGATATATCAAGAGAGTGAGAATATAGCATCTCTACACAACCAGATCAC
 AGCCTGTGATGCTGTCTGGAGCGAATGGAGCAGATGTTGGGAGCTTTTCAGAGTGACCTCAGCTCCATC
 AGCTCTGAGATCCGGACTGCAGGAACAGTCAGGAGCCATGAACATTCGACTTCGAAATCGCCAGGCAG
 TTCGGGGAAACTTGGGAGCTTGTGATGGTCTGGTGGTGCCTTCTGCTCTGGTCACGGCAATTCTGGA
 GGCTCCAGTGACAGAGCCAGGTTCTTGGAGCAGCTACAGGAGCTGGATGCCAAGGCAGCCGAGTCAGA
 GAGCAGGAAGCTAGAGGCACAGCAGCCTGCGCAGATGTCAGAGGCGTGCTCGATCCGGCTCCGGGTCAAGG
 CAGTGACGAAGATCCGAGAGTTTATCCTCCAGAAGATTTATCCTTCAGGAAACCATGACCAACTATCA
 GATCCCCCAGACGGCCCTGCTGAAGTACAGGTTCTTCTATCAGTTTCTGCTGGGCAATGAACGAGCAACA
 GCAAAGGAGATCAGGGATGAATATGTGGAGACGCTGAGCAAGATTTACCTGTCTTACTACCGCTCTTACC
 TGGGGCGGCTCATGAAGTGCAGTATGAGGAAGTCGCTGAGAAAGATGATCTAATGGGTGTGAAGATAC
 AGCAAAGAAAGGATCTTCTCAAAGCCATCGCTCCGCAGCAGGAACACCATTTTACCCTAGGAACCCGC
 GGCTCTGTATCTCCCCACTGAACTTGGAGCCCCATCCTGGTGCCTCACACAGCGCAGCGCGGAGAGC
 AGAGGTATCCATTTGAGCCCTCTCCGCAGCCAGCACTACGCCCTCTAGACAATTCCTGCCCGAATA
 CTTTTTCATCTGTGAATTTTTTGTGTCTGGCCAGCTGCACACGACCTGTTCCATGCTGTCTGCGGC
 CGTACACTCAGCATGACCCTGAAACACCTGGATTCTTATCTAGCTGACTGCTACGATGCCATTGCTGTTT
 TTCTCTGTATCCACATTGTTCTCCGTTCCGTAACATTGCAGCAAAGAGGGATGTTCTGCCCTGGACAG
 GTACTGGGAACAGGTGCTTGCTTGCTATGGCCACGGTTTGAAGTATCCTGGAGATGAATGTTGAGAGC
 GTCCGAAGCACTGACCCCGCGCTAGGGGGTTGGATACTCGGCCCACTATATCACACGCCGCTATG
 CAGAGTTCTCCTCGCTTGTGTCAGTATCAACCAGACAATTCCTAATGAACGGACCATGCAATTGCTGGG
 ACAGCTGCAGGTGGAGGTGGAGAATTTGTCTCCGAGTGGCAGCTGAGTTCTCCTCAAGGAAGGAGCAG
 CTTGTGTTTCTGATCAACAACATGACATGATGCTGGGTGTGCTGATGGAGCGGGCTGCAGATGACAGCA
 AAGAGGTTGAGAGCTCCAGCAGCTGCTCAATGCTCGGACACAGGAATTCATTGAAGAGTTGCTGTCTCC
 CCCTTTTGGGGTTTGTGGCATTGTGTAAGGAGGCTGAGGCTTTGATTGAGCGTGGACAGGCTGAGCGA
 CTTGAGGGGAAGAAGCCCGGTAACCTAGCTGATCCGTGGCTTTGGTAGTTCTGGAAATCATCAGTGG
 AATCTCTGAGTCAGGATGTAATGCGGAGTTTACCAACTTCAGAAATGGCACCAGTATCATTAGGGAGC
 GCTGACCCAGCTGATCCAGCTCTATCATCGTTCCACCGGGTGTGTCCAGCCGAGCTCCGAGCCCTC
 CCTGCCCGGCTGAGCTCATCAACATTCACCACCTTATGGTGGAGCTCAAGAAGCATAAGCCCAACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208017 representing NM_022553
 Red=Cloning site Green=Tags(s)

MAAAATMAAAAREL VLRAGTSDMEEEEGPLAGGPGLQEPLQLGELDITSDEFILDEVDVHIQANLEDELV
 KEALKTGVDLRHYSKQVELELQQIEQKSIRDYIQESENIALHNQITACDAVLERMEQMLGAFQSDLSSI
 SSEIRTLQEQQSGAMNIRLNRNQAVRGKLGELVDGLVVPALVTAILEAPVTEPRFLEQLQELDAKAAAVR
 EQEARGTAACADVRGVLDRLRVKAVTKIREFILQKIYSFRKPMNTNYQIPQTALLKYRFFYQFLLGNERAT
 AKEIRDEYVETLSKIYLSYYRSLGRLMKVQYEEVAEKDDLMGVEDTAKKGFFSKPSLRSRNTIFTLGTR
 GSVISPTLEAPILVPHTAQRGEQRYPFREALFRSQHYALLDNSCREYLFICEFFVVGPAADHDFHAVMG
 RTLSMTLKHLDLADCYDAIAVFLCIHIVLFRFRNIAAKRDVPALDRYWEQVLAALLWPRFELILEMNVQS
 VRSTDPQRLGGLDTRPHYITRRYAEFSSALVSINQTIPTNERTMQLLQQLQVEVENFVLRVAAEFSSRKEQ
 LVFLINNYDMMGLVLMERAADDSKEVESFQQLLNARTQEFIEELLSPFGLVAFVKEAEALIERGQAE
 LRGEEARVTQLIRGFSSWKSSVESLSQDVMRSFTNFRNGTSIIQGALTQLIQLYHRFHRVLSQPQLRAL
 PARAELEINIHLMVELKKHKPNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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_022553.6](#)

RefSeq Size: 2990 bp

RefSeq ORF: 2172 bp

Locus ID: 6293

UniProt ID: [Q8N1B4](#)

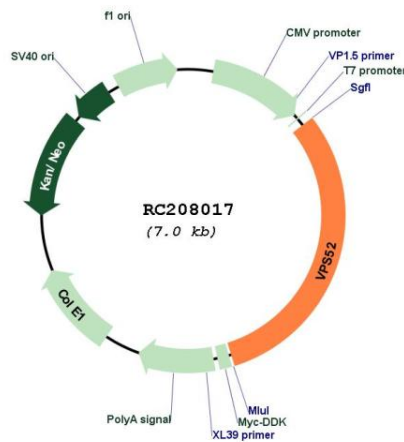
Cytogenetics: 6p21.32

Domains: Vps52

MW: 82.7 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 RC208017