

Product datasheet for **RC203870**

VPS33B (NM_018668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS33B (NM_018668) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS33B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC203870 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTTTCCCATCGGCCGACGCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAG
 ACCAGCTCATCTATCTGCTGGAGCAGCTTCTGGAAAAAGGATTTATTATTGAGGCAGATCTCATGAG
 CCTTTGGATCGAATTGCCAATGTCTCCATCTGAAGCAACACGAAGTAGACAAGCTATAACAAGGTGGAG
 AACAAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCAGACCCCGCATCAAGAATATGCGAT
 ACATTGCCAGTCTTGCAATGCTGACAAATGGCTGGCCGAAGCTCGAAAATACAAAGTGATCTTCAGCCC
 TCAAAAGTTCTATGCGTGTGAGATGGTCTTGAGGAAGAGGGAATCTATGGAGATGTGAGCTGTGATGAA
 TGGGCTTCTCTTTGCTGCCTTTGATGTGGATCTGCTGAGCATGGAAGTACCAGAAATTTTCAGGGATT
 ACTTTCTGGAAGGAGATCAGCGTTGGATCAACTGTAGCTCAGGCCTTACACCTTCTCAGCACTCTCTA
 TGGACCTTTCCAACTGCTATGGAATTGGCAGGTGCGCCAAGATGGCATATGAATTGTGGAGGAACCTG
 GAGGAGGAGGAGGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTTCTCTTGGACAGAG
 ATGTGGACTTTGTGACAGCACTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCTTCCGCAT
 CAAGTGTGGGAGTGTGACTTTGGCCGAGAAGTACATCTCTGACAAGAGCCTGAAGGTGCTACTCAAT
 GCCGAGGACAAGGTGTTAATGAGATTCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTGAGCCAGA
 AGGCCCGGAAGTGCAGGCCAGTATGATCGCCGGAGAGGCATGGACATTAAGCAGATGAAGAATTTCTG
 GTCCCAGGAGCTCAAGGGCTGAAACAGGAGCACCGCTGCTGAGTCTCCATATTGGGGCTGTGAATCC
 ATCATGAAGAAGAAAACCAAGCAGGATTTCCAGGAGCTAATCAAGACTGAGCATGCATGCTAGAGGGGT
 TCAACATCCGGGAGAGCACCCAGCTACATTGAGGAACACATAGACCGGCAGGTGTCGCCTATAGAAAGCT
 GCGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGTATCCCCAAGGATTACCGATCTCTGAAAACA
 CAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAGAGCTGGGCTCTAA
 CGGAGCAGGCCCCCGGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAAGCAAGCTGGTGACCGACAAGGC
 TGCAGGAAAGATTACTGATGCCTTCAGTCTCTGGCCAAGAGGAGCAATTTCTGTCATCAGCAAAAAG
 CTGAATTTGATCCACGTGTGGACGGCAGTATGATCTGAAAGTGCCTGAGACATGGCTTACGTCTTCA
 GTGGTCTTATGTGCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCAAGCTGGCAGGGCT
 TGATGAGGTGGTACGGCTGCTCAACTGCAGTACTTTGCATTACAGATATGACTAAGGAAGACAAGGCT
 TCCAGTGAGTCCCTGCGCCTCATCTTGGTGGTGTCTTGGTGGTGTACATTCTCTGAGATCTCAGCCC
 TCCGGTTCCTGGCAGAGAGAAAGGCTACAGGTTCAATTTCTGACGACAGCAGTCAAAACAGCGCTCG
 CCTTATGGAGGCCATGAGTGAGGTGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203870 protein sequence
 Red=Cloning site Green=Tags(s)

MAFPHRPDAPELPDFSMKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSIKQHEVDKLYKVE
 NKPALSSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVIKSPQKIFYACEMVLEEEGIYGDVSCDE
 WAFSLLPLDLDLMSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGPFPCYIGRCAKMAVELWRNL
 EEEEDGETKGRRPEIGHIFLLDRDVFVLTALCSQVVEGLVDDTFRIKCGSVDFGPEVTSDDKSLKVLN
 AEDKVFNEIRNEHFSNVFGFLSQKARNLQAQYDRRRGMDIKQMNFSQELKGLKQEHLLSLHIGACES
 IMKKKTKQDFQELIKTEHALLEGFNIRESTSYIEEHIDRQVSPIESLRMLCLLSITENGLIPKDYRSLKT
 QYLQSYGPEHLLTFSNLRRAGLLTEQAPGDTLTAVESKVSCLVTDKAAGKITDAFSSLAKRSNFRAISKK
 LNLIPRVDGEYDLKVPDMAYVFSGAYVPLSRIIEQVLERRSQWGLDEVVRLNCSDFAFDTMTKEDKA
 SSESRLILVFLGGCTFSEISALRFLGREKGYRIFLTTAVTNSARLMEAMSEVKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6306_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018668

ORF Size: 1851 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018668.2](#), [NP_061138.2](#)

RefSeq Size: 2795 bp

RefSeq ORF: 1854 bp

Locus ID: 26276

UniProt ID: [Q9H267](#)

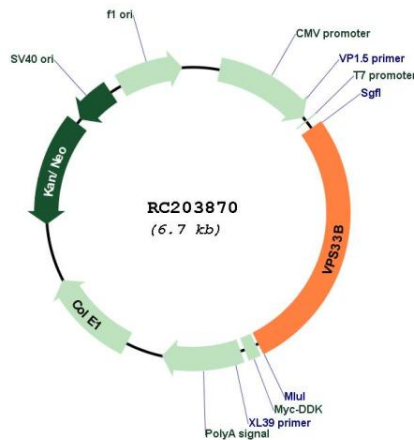
Cytogenetics: 15q26.1

Domains: Sec1

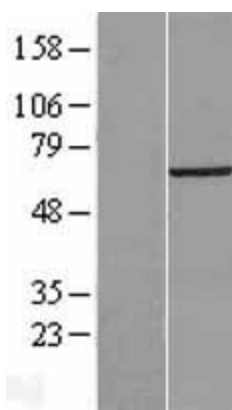
MW: 70.6 kDa

Gene Summary: Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene is a member of the Sec-1 domain family, and encodes the human ortholog of rat Vps33b which is homologous to the yeast class C Vps33 protein. The mammalian class C vacuolar protein sorting proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. Mutations in this gene are associated with arthrogyryposis-renal dysfunction-cholestasis syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

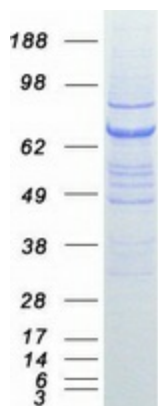
Product images:



Circular map for RC203870



Western blot validation of overexpression lysate (Cat# [LY412974]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203870 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS33B protein (Cat# [TP303870]). The protein was produced from HEK293T cells transfected with VPS33B cDNA clone (Cat# RC203870) using MegaTran 2.0 (Cat# [TT210002]).