

Product datasheet for **RC239011**

VPS33B (NM_001289148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS33B (NM_001289148) 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:

>RC239011 representing NM_001289148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTTTCCCATCGGCCGACGCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAG
 ACCAGCTCATCTATCTGCTGGAGCAGCAACACGAAGTAGACAAGCTATACAAGGTGGAGAACAAGCCAGC
 CCTCAGCTCCAATGAACAATTGTCTTCTGGTCAGACCCCGCATCAAGAATATGCGATACATTGCCAGT
 CTTGTCAATGCTGACAAATTGGCTGGCCGAACTCGAAATACAAAGTGATCTTCAGCCCTCAAAGTTCT
 ATGCGTGTGAGATGGTCTTGGGAAGAGGGAATCTATGGAGATGTGAGCTGTGATGAATGGCCTTCTC
 TTTGCTGCCTCTTGATGTGGATCTGCTGAGCATGGAACCTACCAGAATTTTTAGGGATTACTTTCTGGAA
 GGAGATCAGCGTTGGATCAACACTGTAGCTCAGGCCTTACACCTTCTCAGCACTCTCTATGGACCTTTC
 CAAACTGCTATGGAATTGGCAGGTGCGCAAGATGGCATATGAATTGTGGAGAACCTGGAGGAGGAGGA
 GGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTCTCTTGGACAGAGATGTGGACTTT
 GTGACAGCACTTTGCTCCCAAGTGGTTTATGAGGGCTAGTAGATGACACCTCCGCATCAAGTGTGGGA
 GTGTGCAGCTTTGGCCAGAAGTCACATCTCTGACAAGAGCCTGAAGGTCTACTCAATGCCGAGGACAA
 GGTGTTTAAATGAGATTCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTGGCCAGAAGGCCCGAAC
 TTGACGGCCAGTATGATCGCCGGAGAGGCATGGACATTAAGCAGATGAAGAATTCGTGTCCCAGGAGC
 TCAAGGGCCTGAAACAGGAGCACCGCCTGCTGAGTCTCCATATTGGGGCCTGTGAATCCATCATGAAGAA
 GAAAACCAAGCAGGATTTCCAGGAGCTAATCAAGACTGAGCATGCACTGCTAGAGGGTTCAACATCCGG
 GAGAGCACCACTACATTGAGGAACACATAGACCGGCAGGTGTCGCCTATAGAAAGCCTGCGCCTCATGT
 GCCTTTTGTCCATCACTGAGAATGGTTTGTATCCCAAGGATTACCGATCTCTGAAAACACAGTATCTGCA
 GAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAGAGCTGGGCTCCTAACGGAGCAGGCC
 CCCGGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAGCAAGCTGGTGACCGACAAGGCTGCAGGAAAGA
 TTAAGTGCCTTCAAGTCTCTGGCCAAGAGGAGCAATTTTCGTGCCATCAGCAAAAAGCTGAATTTGAT
 CCCACGTGTGGACGGCGAGTATGATCTGAAAGTGCCTCGAGACATGGCTTACGTCTTCGGTGGTCTTAT
 GTGCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGCGAAGCTGGCAGGGCCTTGTAGAGTGG
 TACGGCTGCTCAACTGCAGTGACTTTGCATTACAGATATGACTAAGGAAGACAAGGCTTCCAGTGAGTC
 CCTGCGCCTCATCTTGGTGGTGTCTTGGGTGGTGTACATTCTCTGAGATCTCAGCCCTCCGGTCTCTG
 GGCAGAGAGAAAGGCTACAGGTTCAATTTCTGACGACAGCAGTCAAAACAGCGCTCGCCTTATGGAGG
 CCATGAGTGAGGTGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239011 representing NM_001289148
 Red=Cloning site Green=Tags(s)

MAFPHRPDAPELPDFSMLKRLARDQLIYLLEQQHEVDKLYKVENKPALESSNEQLCFLVPRPRIKNMRYIAS
 LVNADKLAGRTRKYKVFSPQKIFYACEMVLEEEGIYGDVSCDEWAFSLLPLDVDLLSMELPEFFRDYFLE
 GDQRWINTVAQALHLLSTLYGPFPCYGIIRCAKMAVELWRNLEEEEDGETKRRPEIGHIFLLDRDVFDF
 VTALCSQVVEGLVDDTFRIKCGSVDFGPEVTSDDKSLKVLNAEDKVFNEIRNEHFSNVFGFLSQKARN
 LQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLSLHIGACESIMKKTKQDFQELIKTEHALLEGFNIR
 ESTSYIEEHIDRQVPIESLRMLCLLSITENGLIPKDYSRLKTQYLQSYGPEHLLTFSNLRAGLLTEQA
 PGDTLTAVESKYSKLVTDKAAGKITDAFSSSLAKRSNFRAISKKLNLIPRVDGEYDLKVPDRMAYVFGGAY
 VPLSCRITIEQVLERRSWQGLDEVVRLNCSDFAFDTMTKEDKASSESLRLILVVLGGCTFSEISALRFL
 GREKGYRFIFLTTAVTNSARLMEAMSEVKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001289148

ORF Size: 1770 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_001289148.1](#), [NP_001276077.1](#)

RefSeq Size: 2714 bp

RefSeq ORF: 1773 bp

Locus ID: 26276

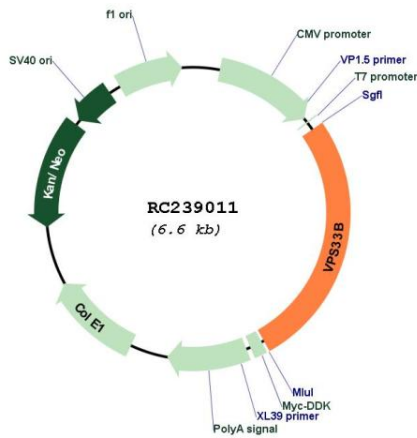
UniProt ID: [Q9H267](#)

Cytogenetics: 15q26.1

MW: 68.1 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 RC239011