

## Product datasheet for **RG203870**

### VPS33B (NM\_018668) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS33B (NM_018668) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VPS33B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203870 representing NM\_018668  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTTTCCCATCGGCCGACGCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAG  
 ACCAGCTCATCTATCTGCTGGAGCAGCTTCTGGAAAAAGGATTTATTATTGAGGCAGATCTCATGAG  
 CCTTTGGATCGAATTGCCAATGTCTCCATCTGAAGCAACACGAAGTAGACAAGCTATAACAAGGTGGAG  
 AACAAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCAGACCCCGCATCAAGAATATGCGAT  
 ACATTGCCAGTCTTGCAATGCTGACAAATTGGCTGGCCGAAGCTCGAAAATACAAAGTGATCTTCAGCCC  
 TCAAAAGTTCTATGCGTGTGAGATGGTCTTGAGGAAGAGGGAATCTATGGAGATGTGAGCTGTGATGAA  
 TGGGCTTCTCTTTGCTGCCTTTGATGTGGATCTGCTGAGCATGGAAGTACCAGAAATTTTCAGGGATT  
 ACTTTCTGGAAGGAGATCAGCGTTGGATCAACTGTAGCTCAGGCCTTACACCTTCTCAGCACTCTCTA  
 TGGACCTTTCCAACTGCTATGGAATTGGCAGGTGCGCCAAGATGGCATATGAATTGTGGAGAACCTG  
 GAGGAGGAGGAGGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTTCTCTTGGACAGAG  
 ATGTGGACTTTGTGACAGCACTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCTTCCGCAT  
 CAAGTGTGGGAGTGTGACTTTGGCCGAGAAGTACATCTCTGACAAGAGCCTGAAGGTGCTACTCAAT  
 GCCGAGGACAAGGTGTTAATGAGATTCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTGAGCCAGA  
 AGGCCCGGAAGTGCAGGCCAGTATGATCGCCGGAGAGGCATGGACATTAAGCAGATGAAGAATTCGT  
 GTCCCAGGAGCTCAAGGGCTGAAACAGGAGCACCGCTGCTGAGTCTCCATATTGGGGCTGTGAATCC  
 ATCATGAAGAAGAAAACCAAGCAGGATTTCCAGGAGCTAATCAAGACTGAGCATGCATGCTAGAGGGGT  
 TCAACATCCGGGAGAGCACCAAGTACATTGAGGAACACATAGACCGGCAGGTGTGCGCTATAGAAAGCCT  
 GCGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGTATCCCCAAGGATTACCGATCTCTGAAAACA  
 CAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAGAGCTGGGCTCTAA  
 CGGAGCAGGCCCCCGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAAGCAAGCTGGTGACCGACAAGGC  
 TGCAGGAAAGATTACTGATGCCTTCAGTTCTCTGGCCAAGAGGAGCAATTTTCGTGCCATCAGCAAAAAG  
 CTGAATTTGATCCACGTGTGGACGGCAGTATGATCTGAAAGTGCCTGAGACATGGCTTACGTCTTCA  
 GTGGTCTTATGTCCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCAAGCTGGCAGGGCT  
 TGATGAGGTGGTACGGCTGCTCAACTGCAGTACTTTGCATTACAGATATGACTAAGGAAGACAAGGCT  
 TCCAGTGAGTCCCTGCGCCTCATCTTGGTGGTGTCTTGGTGGTGTACATTCTCTGAGATCTCAGCCC  
 TCCGGTTCCTGGCAGAGAGAAAGGCTACAGGTTCAATTTCTGACGACAGCAGTCAAAACAGCGCTCG  
 CCTTATGGAGGCCATGAGTGAGGTGAAAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203870 representing NM\_018668  
 Red=Cloning site Green=Tags(s)

MAFPHRPDAPELPDFSMLKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILKQHEVDKLYKVE  
 NKPALSSNEQLCFLVPRPRIKNMRYIASLVNADKLAGRTRKYKVIKSPQKQFYACEMVLEEEGIYGDVSCDE  
 WAFSLLPLDLDLLSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGPFPCYGIIGRCAKAMAYELWRNL  
 EEEEDGETKGRPEIGHIFLLDRDVFVLTALCSQVVEGLVDDTFRIKCGSVDFGPEVTSDDKSLKVLN  
 AEDKVFNEIRNEHFSNVFGFLSQKARNLQAQYDRRRGMDIKQMNKQVSLKGLKQEHRLSLHIGACES  
 IMKKKTKQDFQELIKTEHALLEGFNIRESTSYIEEHIDRQVSPIESLRMLCLLITENGLIPKDYRSLKT  
 QYLQSYGPEHLLTFSNLRAGLLTEQAPGDTL TAVESKYSKLVTDKAAGKITDAFSSLAKRSNFRAISKK  
 LNLIPRVDGEYDLKVPDMAYVFSGAYVPLSRIIEQVLERRSWQGLDEVVRLNCSDFAFDTMTKEDKA  
 SSESRLRILVFLGGCTFSEISALRFLGREKGYRIFLTTAVTNSARLMEAMSEVKA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-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](mailto: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.

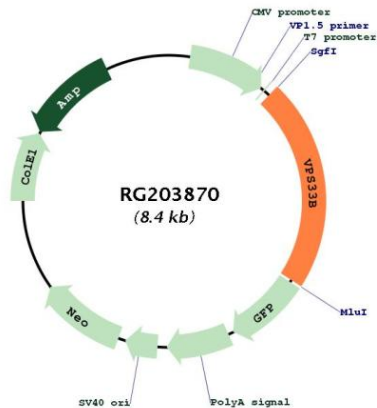
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

**RefSeq:** [NM\\_018668.2, NP\\_061138.2](#)  
**RefSeq Size:** 2639 bp  
**RefSeq ORF:** 1854 bp  
**Locus ID:** 26276  
**UniProt ID:** [Q9H267](#)  
**Cytogenetics:** 15q26.1  
**Domains:** Sec1

**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 RG203870