

## Product datasheet for **SC113391**

### VPS33B (NM\_018668) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS33B (NM_018668) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS33B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113391 sequence for NM\_018668 edited (data generated by NextGen Sequencing)

```
ATGGCTTTTCCCATCGGCCGACGCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGG
CTGGCTCGAGACCAGCTCATCTATCTGCTGGAGCAGCTTCTGGAAAAAGGATTTATTC
ATTGAGGCAGATCTCATGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAA
CACGAAGTAGACAAGCTATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAA
TTGTGCTTCTTGGTCAGACCCCGCATCAAGAATATGCGATACATTGCCAGTCTTGTCAAT
GCTGACAAATTGGCTGGCCGAACTCGCAAATACAAAGTGATCTTACGCCCTCAAAAAGTTC
TATGCGTGTGAGATGGTCTTGAGGAAGAGGGAATCTATGGAGATGTGAGCTGTGATGAA
TGGGCCTTCTCTTGGCTGCCTCTTGATGTGGATCTGCTGAGCATGGAACCTACCAGAATTT
TTCAGGGATTACTTTCTGGAAGGAGATCAGCGTTGGATCAACACTGTAGCTCAGGCCTTA
CACCTTCTCAGCACTCTCTATGGACCTTTCCAACTGCTATGGAATTGGCAGGTGCGCC
AAGATGGCATATGAATTGTGGAGAACCTGGAGGAGGAGGATGGCGAAACCAAGGGC
CGAAGGCCAGAGATTGGACATATCTTTCTTGGACAGAGATGTGGACTTTGTGACAGCA
CTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCTTCCGCATCAAGTGTGGG
AGTGTGCACTTTGGCCAGAAAGTACATCTCTGACAAGAGCCTGAAGGTGCTACTCAAT
GCCGAGGACAAGGTGTTAATGAGATTCGGAACGAGCACTTCTCCAATGTCTTTGGCTTC
TTGAGCCAGAAGGCCCGAACTTGCAGGCCAGTATGATCGCCGGAGAGGCATGGACATT
AAGCAGATGAAGAATTTTCGTGTCCAGGAGCTCAAGGGCTGAAACAGGAGCACCGCCTG
CTGAGTCTCCATATTGGGCCTGTGAATCCATCATGAAGAAGAAAACCAAGCAGGATTTT
CAGGAGCTAATCAAGACTGAGCATGCACTGCTAGAGGGTTCAACATCCGGGAGAGCACC
AGCTACATTGAGGAACACATAGACCCGCGAGGTGTCGCCTATAGAAAGCCTGCGCCTCATG
TGCTTTTGTCCATCACTGAGAATGGTTTGTATCCCAAGGATTACCGATCTCTGAAAACA
CAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAGAGCT
GGGCTCCTAACGGAGCAGGCCCCCGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAGC
AAGCTGGTGACCGACAAGGCTGCAGGAAAGATTACTGATGCCTTCAGTTCTCTGGCCAAG
AGGAGCAATTTTCGTGCCATCAGCAAAAAGCTGAATTTGATCCCACGTGTGGACGGCGAG
TATGATCTGAAAGTGCCCGAGACATGGCTTACGTCTTCGGTGGTGTATGTGCCCTG
AGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCGAAGCTGGCAGGGCCTTGATGAGGTG
GTACGGTGTCTCAACTGCAGTGACTTTGCATTACAGATATGACTAAGGAAGACAAGGCT
TCCAGTGAGTCCCTGCGCCTCATCTTGGTGGTGTCTTGGGTGGTGTACATTCTCTGAG
ATCTCAGCCCTCCGGTCTTGGCAGAGAGAAAGGCTACAGGTTCAATTTCTGACGACA
GCAGTCAAAACAGCGCTCGCCTTATGGAGCCATGAGTGAGGTGAAAGCCTGA
```

Clone variation with respect to NM\_018668.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018668 unedited  
 GTCGAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCTGAGACAGGC  
 TGCTCCGAGGTAGTAGCTCTCTTGCCTGGAGGTGGCCATTCATTCTGGAGTGCTGCTGA  
 GGAGCGAGGGCCCATCTGGGGTCTCTGGAAGTCGGTGCCAGGCCTGAAGGATAGCCCC  
 CTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGAACGAAGGGCGTCTTCCACCCCGC  
 GGCGCAGGTGACCGCTGCCATGGCTTTTCCCATCGGCCGGACGCCCTGAGCTGCCTGA  
 CTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGCTCATCTATCTGCTGGAGCAGCTTCC  
 TGGAAAAAAGGATTTTATTATTGAGGCAGATCTCATGAGCCCTTTGGATCGAATTGCCAA  
 TGTCTCCATCCTGAAGCAACACGAAGTAGACAAGCTATACAAGGTGGAGAACAAGCCAGC  
 CCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCAGACCCCGCATCAAGAATATGCGATA  
 CATTGCCAGTCTTGTCAATGCTGACAAATTGGCTGGCCGAACCTCGCAAATACAAAGTGAT  
 CTTCAGCCCTCAAAGTTCTATGCGTGTGAGATGGTGCTTGGGAAGAGGGAATCTATGG  
 AGATGTGAGCTGTGATGAATGGCCTTCTCTTGGTGCCTCTTGTGATGGATCTGCTGAG  
 CATGGAACACCAGAATTTTTCAGGGATTACTTTCTGGAAGGAGATCAGCGTTGGATCAA  
 CACTGTAGCTCAAGCCTTACACCTTCTCAGCACTCTCTATGGACCCTNTCCAAGTCTAT  
 GGAATTTGGCAGGTGCGCCAAGATGGCATATGAAANTGTGGAGGAACCTGNNNAGAGNAGG  
 AGGATGGCGAAACCCAGGCGCAAGCCAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018668 unedited  
 ACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTCTGAAAGCAAAGGCTTTATTTACAATGACATTCAAACAGGATTTAA  
 CAAAGGATGCCTTTTCTGCTCGCATTTAACAGCATGGGTTGACTTCATAAACAAAAA  
 AAAAAATTTCTGGGAGCAGGAAGGAACTCTTTTCTCAAATAATGTTCTTTAAATCCC  
 AACACGTTCCATGCTCCCGGTTTTTAACAGGTAGTTGGGGACACTTGGTTATAACAGCT  
 GGGTGCCAAATGCCTGCATCTCACTGAGGAATGGGTTCAAGGAAAATGTCAACACTGGCC  
 GGGAAAAACATCAGGCTTTCACCTCACTCATGGCCTCCATAAGGCGAGCCCTGTTTGTGA  
 CTGCTGTGCTCAGGAAAATGAACCTGTAGCCTTTTTTTTTTGGCCAGGAACCGGAGGGCTG  
 AAATCTCAAAAAATGTCCAACACCCAAAAACACCAAGATGAGGCGCAGGGACTCAC  
 TGAAGCCTTGTCTTCTTAGTCATATCTGGGAATGCAAAGTCACTGCAGTTGAGCAGCC  
 GTACCACCTCATTAAAGCCCTGCCAGCTTCGCCGCTCTAACACCTGCTTAATGATTCGGC  
 AGCTCAGGGGCACATAAGCCCCACCGAAGACGTAAGCCCTGTCTCGGGGCACTTTTCAAGAT  
 ATACTCGCCCGGCACACGTGGGGATCAAATCCACTTTTTTGTGATGGACCAAAATTTGCT  
 CCTTTTTGCCACAAAATGGAAGCATCATTAAATCTTCTGGCATCTTGGTGTGACCCAG  
 CTTGTTCACTTTACTTTCCAGCTTTGAAAGGTGTCGCCGGGGCCCTGTCCCTAGGAACCC  
 CTCTTTTCAAATGGAAGTTACCAGTGCTCACGGCCT

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_018668

**Insert Size:**

2380 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** 2509 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 arthrogryposis-renal dysfunction-cholestasis syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).