

## Product datasheet for **SC114137**

### VAMP1 (NM\_016830) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VAMP1 (NM_016830) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAMP1
Synonyms:	CMS25; SPAX1; SYB1; VAMP-1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016830, the custom clone sequence may differ by one or more nucleotides

```
ATGTCTGCTCCAGCTCAGCCACCTGCTGAAGGGACAGAAGGGACTGCCCCAGGTGGGGTCCCCCTGGCC
CTCCTCCTAACATGACCAGTAACAGACGACTACAGCAAACCCAGGCACAAGTGGAGGAGGTGGTGGACAT
CATACGTGTGAACGTGGACAAGGTCCTGGAGAGGGACCAGAAGCTGTGAGAGCTGGATGACCGAGCTGAT
GCCTTGCAGGCAGGAGCATCACAATTTGAGAGCAGTGCTGCCAAGCTAAAGAGGAAGTATTGGTGGAAAA
ACTGCAAGATGATGATCATGCTGGGAGCCATCTGTGCCATCATCGTGGTAGTTATTGTAAGCGGGACTG
A
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_016830 unedited  
 CATATTTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGTCCGTCCACTTC  
 AGCCGCAGCGTCCCTCGCCGGGTGTCTCGCCGACGCTCCGGAGAGGAACAGACCCTCAC  
 TCTCTGTGCAGAAAAATGTCTGCTCCAGCTCAGCCACCTGCTGAAGGGACAGAAGGGAC  
 TGCCCCAGGTGGGGTCCCCCTGCCCTCCTCAACATGACCAGTAACAGACGACTACA  
 GCAAACCCAGGCACAAGTGGAGGAGGTGGTGGACATCATACGTGTGAACGTGGACAAGGT  
 CCTGGAGAGGGACCAAGAAGCTGTCAGAGCTGGATGACCGAGCTGATGCCTTGACGGCAGG  
 AGCATACAATTTGAGAGCAGTGTCTGCAAAGCTAAAGAGGAAGTATTGGTGGAAAACTG  
 CAAGATGATGATCATGCTGGGAGCCATCTGTGCCATCATCGTGGTAGTTATTGTAAGTAA  
 GTATCGTGAAGTTGCTGGTGGGGTGAAGAGGTGGGAAGGTCCTGGAGTCTTCTCCCTGC  
 CTGCTGCCTGCCTGGGGAGTGGGGTCTGCTGACTGAGGTATGGAGACCGCTGCTATGG  
 GATCGTCANCCTGGTCCGGGACGGGNGGAAGGGCAGAGACAAGGGATTTCTTTGATGGAC  
 AAGCCTTCCCCCTGCAAAGCATTGCNAGGAGATGGCGCCTCCTGTCTGAGGAAGTGGGG  
 CNTATGCTGTGTGCTCACTGGGCTTGGGNTGGNANGGAGAACCATGGGGATGGGGGGCAC  
 TTAACAATGGAAGACCCCTGATGTCTGGGTACCTNNGNTGTNAATTCGCCCTCNTGGTT  
 TNCTNCCTGGCTCTTTCTCTTTTTCTGCTGGGACTTNCTGATTNCTGNNNGCCAGNNC  
 TACTTTTTACCTGGGAGAATGGTACACCCCTTNNCTGTTTGTCCATTGCCATACCAA  
 TTCATGGTCTCTGGCCTTCNGTGTGGTCTTAAACCACTTCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_016830 unedited  
 NNCCTTTTGAAGTGNACCCGCGGCCGCATNCTAGNGATCGGTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTAAAGGGGAGGAAATTTGAATTTTTTGCCTTTGTTCAAATAC  
 ATGACATTGGTAAATATGCCACATGCCTTTGGGGAAAGTACAACCTGTTGTTATTACTCTA  
 TACAAGTATGAAATCAGGGTTAGGAAAAAAGACAAAGAGGTGATGACAGACACACAGGG  
 GAAACCCACATCGTCTCATGGCAAACCGAAAAACGGGATGTGGGAAGCTCAGCTTCATT  
 TGACTGCAAAGTCCCAGGGTTTTTGTGCACATTTGCTCATGCACATGGGTGGGGGAGGA  
 AAGGGGGATAGCAAAGACACAGAAAGAGGGTACAGGGTGGGTGAAAAAGAAAGTAAAAG  
 GGTAATACCCCAAAAGAACAGGCCAACTACACCTGGTGAAGCTCAGAGGGACAGAAAC  
 CCAGGAATGATTCTGTGATAGGGCTGGGAGAGCCAAAAGGACGGATTGCTCCAGGCTT  
 GGGACACATCGAGGACAGTAGGTGGTCTTCTCCAGCGGTGACCCCTGCATTAGGCAAG  
 GAGGAGCCAGAGGAGAGTGGAGACCTTCGAGGGGGCCGTTGGGAGGGTACTGACTGCT  
 TTCTTCCAGCTCTTCAATCCCGCCCTTGGGCAGAACCATAGGGAATGTGGGAAACAAGGG  
 CGAAGGGAAAGGAAAGATGGTTTCAGAGCCATGCAATGCTGCTGGGTGGAAGTGGGCAT  
 ACAGACCCTGACCAGGATGGCCTCAGCCTTTTCTGTTCTGTTGGAACCGAGGGAAAAAGGA  
 AAAAAGGCCAGGGGATTTTCCCGTTATGTCACAGCTTGCCCTCCTCCCTTGCCCGGGG  
 CTATCCCAAGTATAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_016830

**Insert Size:**

4360 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016830.2</a> , <a href="#">NP_058439.1</a>
<b>RefSeq Size:</b>	1104 bp
<b>RefSeq ORF:</b>	351 bp
<b>Locus ID:</b>	6843
<b>UniProt ID:</b>	<a href="#">P23763</a>
<b>Cytogenetics:</b>	12p13.31
<b>Domains:</b>	synaptobrevin
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	SNARE interactions in vesicular transport
<b>Gene Summary:</b>	<p>Synapotobrevins, syntaxins, and the synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. Mutations in this gene are associated with autosomal dominant spastic ataxia 1. Multiple alternative splice variants have been described, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (3), also known as VAMP-1B, contains an alternate 3' terminal exon, resulting in a novel 3' coding region and 3' UTR compared to variant 1. The encoded isoform (3) has a distinct C-terminus and is shorter than isoform 1. Isoforms 3 and 4 are the same length but differ in their C-termini.</p>