

## Product datasheet for **SC328878**

### SV2B (NM\_001167580) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SV2B (NM_001167580) Human Untagged Clone
Tag:	Tag Free
Symbol:	SV2B
Synonyms:	HsT19680
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328878 representing NM\_001167580.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

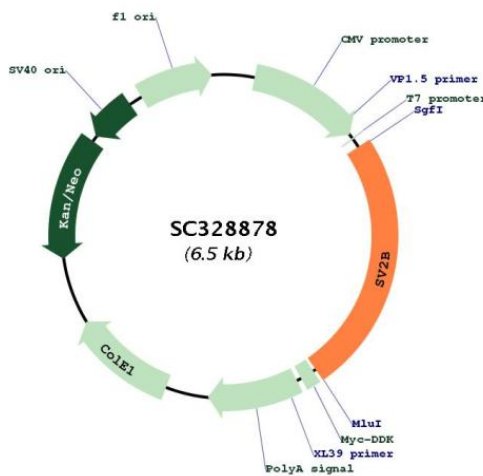
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TATGGAGCCTTCTCTTCTGCCGACTCATCTCAGGCATCGGTATTGGGGGTGCTCTACCGATTGTTTTT
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Restriction Sites:

Sgfl-MluI

Plasmid Map:



<b>ACCN:</b>	NM_001167580
<b>Insert Size:</b>	1599 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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>	<u><a href="#">NM_001167580.1</a></u>
<b>RefSeq Size:</b>	10788 bp
<b>RefSeq ORF:</b>	1599 bp
<b>Locus ID:</b>	9899
<b>UniProt ID:</b>	<u><a href="#">Q7L1I2</a></u>
<b>Cytogenetics:</b>	15q26.1
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	ECM-receptor interaction
<b>MW:</b>	60.4 kDa

**Gene Summary:**

This gene encodes a member of the synaptic vesicle proteins 2 (SV2) family and major facilitator superfamily of proteins. This protein and other members of the family are localized to synaptic vesicles and may function in the regulation of vesicle trafficking and exocytosis. Studies in mice suggest that the encoded protein may act as a protein receptor for botulinum neurotoxin E in neurons, and that this protein may be important for the integrity of the glomerular filtration barrier. This gene shows reduced expression in areas of synaptic loss in the hippocampus of human temporal lobe epilepsy patients. [provided by RefSeq, Sep 2016] Transcript Variant: This variant (2) lacks two internal exons in the 5' region, as compared to variant 1. This results in a downstream in-frame AUG start codon and a shorter isoform (2), as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.