

Product datasheet for **RC230240**

SV2B (NM_001167580) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC230240 representing NM_001167580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATAGTCTACTTGGGAATGATGGCGGGCCCTTCATCCTGGGAGGCCTGGCTGATAAGCTGGGAAGGA
 AGCGAGTCTCAGCATGTCTCTGGCCGTC AATGCCTCCTTCGCCTCCCTCTTCCCTTCGTGCAGGGATA
 TGGAGCCTTCTTCTGCGGACTCATCTCAGGCATCGGTATTGGGGTGCTCTACCGATTGTTTTTGC
 TATTTTTCTGAATTTCTGTCTCGGGAGAAGCGAGGAGAACACCTCAGTTGGCTGGGCATCTTCTGGATGA
 CTGGGGGCTGTACGCATCTGCCATGGCCTGGAGCATCATCCACACTATGGCTGGGGCTTCAGCATGGG
 GACCAATTACCACTTCCATAGCTGGAGAGTGTGTGCATCGTCTGTGCTCTGCCCTGCACCGTGTCCATG
 GTGGCCCTGAAGTTCATGCCAGAGAGCCCAAGTTTCTGCTAGAGATGGGCAAACATGATGAAGCCTGGA
 TGATTCTCAAGCAAGTCCATGACACCAACATGAGAGCTAAGGGGACCCAGAGAAAGTGTTCACGGTTTC
 CAACATCAAACCTCCAAGCAAATGGATGAATTCATTGAGATCCAAAGTCAACAGGAACCTGGTACCAG
 CGCTGGCTGGTCAGATTCAGACCATTTTCAAGCAGGTCTGGGATAATGCCTGTACTGTGTGATGGGGC
 CCTACAGAATGAATACACTGATTCTGGCCGTGGTTTGGTTTGGCCATGGCATTCACTTACTATGGACTGAC
 AGTTTGGTTTCTGATATGATCCGCTATTTTCAAGATGAAGAATAACAAGTCTAAAATGAAGGTGTTTTT
 GGTGAGCATGTGTACGGCCCAACCAACTTCACGATGGAAAATCAGATCCACCAACATGGGAACTTG
 TGAATGATAAGTTCACAAGAATGTACTTTAAACATGTACTCTTTGAGGACACATCTTTGACGAGTGCTA
 TTTTGAAGACGTAACATCAACAGATACTTCAAAAATTGTACCATTGAATCAACCATCTTTTACAAC
 ACAGACCTACGAGCACAAGTTCATCAACTGTCGGTTTATCAACTCCACCTTCTGGAGCAGAAGGAGG
 GCTGCCACATGGACTTGGAGCAAGATAATGACTTCTGATTTACCTCGTCAGCTTCTGGCAGCCTGTC
 TGTCTTACCCGGGAACATCATTCTGCCCTGCTCATGGATAGAATTGGAAGGCTCAAGATGATTGGTGGC
 TCCATGCTAATCTCTGCAGTCTGCTGCTTCTTCTGTTTTTGGCAACAGTGAGTCTGCAATGATCGGCT
 GGCAGTGCCTGTTCTGTGGGACAAGCATTGCAGCCTGGAATGCTCTGGATGTGATCACAGTGAGCTGTA
 TCCACCAACAGAGAGCAACAGCCTTCGGCATTCTCAATGGATTATGCAAATTTGGCGCCATCTGGGA
 AACACCATCTTTGCTTCTTTGTTGGGATAACCAAAGTGGTCCCATCTTCTGGCTGCTGCTTCTCTGG
 TTGGGGTGGCCTGATTGCCCTTCGACTGCCAGAGACTCGAGAACAGTCTCTGATG

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230240 representing NM_001167580
 Red=Cloning site Green=Tags(s)

MIVYLGMAGAFILGGLADKLGRKRVLSMSLAVNASFASLSSFVQYGAFLFCRLISGIGIGGALPIVFA
 YFSEFLSREKRGEHL SWLGI FWMTGGLYASAMAWSIIPHYGWGFSMGTYHFHSWRV FVIVCALPCTVSM
 VALKFMPE SPRFLLEMKGHDEAWMILKQVHDTNMRAKGTPEKVFVTVSNIKTPKQMD E FIEIQSSTGTWYQ
 RWLVRFKTI FKQVWDNALYCVMPYRMNTLILAVVWFAMAFSYYGLTVWF PDMIRYFQDEEYKSKMKVFF
 GEHVYGATINFTMENQIHQHGKLVNDKFRMYFKHVL FEDTFFDECYFEDVTSTDTYFNKCTIESTIFYN
 TDLYEHKF INCRFINSTFLEQKEGCHMDLEQDNDFLIYLV SFLGSLVLPGNII SALLMDRIGRLKMI GG
 SMLISAVCCFFLFFGNSESAMIGWQCLFCGTSIAAWNALDVITVELYPTNQRATAFGILNGLCKFGAILG
 NTFIFASFVGITKVVPI LLAASLVGGGLIALRLPETREQVLM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4971_c09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001167580

ORF Size: 1596 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_001167580.3](#)

RefSeq Size: 10788 bp

RefSeq ORF: 1599 bp

Locus ID: 9899

UniProt ID: [Q7L112](#)

Cytogenetics: 15q26.1

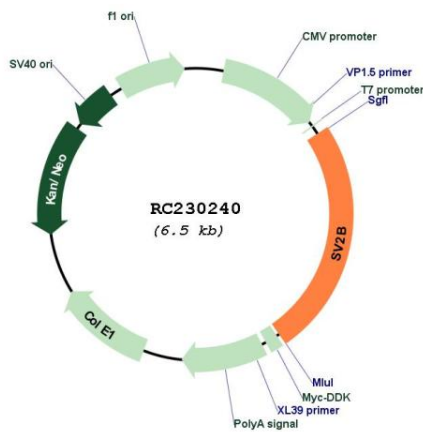
Protein Families: Secreted Protein, Transmembrane

Protein Pathways: ECM-receptor interaction

MW: 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]

Product images:



Circular map for RC230240