

Product datasheet for **RG230240**

SV2B (NM_001167580) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SV2B (NM_001167580) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SV2B
Synonyms:	HsT19680
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230240 representing NM_001167580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATAGTCTACTTGGGAATGATGGCGGGCCCTTCATCCTGGGAGCCCTGGCTGATAAGCTGGGAAGGA
 AGCGAGTCTCAGCATGTCTCTGGCCGTCATGCCTCCTTCGCTCCCTCTCTTCCCTTCGTGCAGGGATA
 TGGAGCCTTCTTCTGCGGACTCATCTCAGGCATCGGTATTGGGGTGCTCTACCGATTGTTTTTGGC
 TATTTTTCTGAATTTCTGTCTCGGGAGAAGCGAGGAGAACACCTCAGTTGGCTGGGCATCTTCTGGATGA
 CTGGGGGCTGTACGCATCTGCCATGGCCTGGAGCATCATCCACACTATGGCTGGGGCTTCAGCATGGG
 GACCAATTACCACTTCCATAGCTGGAGAGTGTGTGCATCGTCTGTGCTCTGCCCTGCACCGTGTCCATG
 GTGGCCCTGAAGTTCATGCCAGAGAGCCCAAGTTTCTGCTAGAGATGGGCAAACATGATGAAGCCTGGA
 TGATTCTCAAGCAAGTCCATGACACCAACATGAGAGCTAAGGGGACCCAGAGAAAGTGTTCACGGTTTC
 CAACATCAAACCTCCAAGCAAATGGATGAATTCATTGAGATCCAAAGTCAACAGGAACCTGGTACCAG
 CGCTGGCTGGTCAGATTCAGACCAATTTCAAGCAGGTCTGGGATAATGCCCTGTACTGTGTGATGGGGC
 CCTACAGAATGAATACACTGATTCTGGCCGTGGTTTGGTTTGGCCATGGCATTCACTTACTATGGACTGAC
 AGTTTGGTTTCTGATATGATCCGCTATTTTCAAGATGAAGAATACAAGTCTAAAATGAAGGTGTTTTT
 GGTGAGCATGTGTACGGCGCCACAATCACTTCCAGATGGAAAATCAGATCCACCAACATGGGAACTTG
 TGAATGATAAGTTCACAAGAATGTACTTTAAACATGTACTCTTTGAGGACACATCTTTGACGAGTGCTA
 TTTTGAAGACGTAACATCAACAGATACTTCAAAAATTGTACCATTGAATCAACCATCTTTTACAAC
 ACAGACCTCTACGAGCACAAGTTCATCAACTGCTCGGTTTATCAACTCCACCTTCTGGAGCAGAAGGAGG
 GCTGCCACATGGACTTGGAGCAAGATAATGACTTCTGATTTACCTCGTCAGCTTCTGGGCAGCCTGTC
 TGTCTTACCCGGGAACATCAATTTCTGCCCTGCTCATGGATAGAATTGGAAGGCTCAAGATGATTGGTGCC
 TCCATGCTAATCTCTGCAGTCTGCTGCTTCTTCTGTTTTTGGCAACAGTGAGTCTGCAATGATCGGCT
 GGCAGTGCCTGTTCTGTGGGACAAGCATTGCAGCCTGGAATGCTCTGGATGTGATCACAGTGGAGCTGTA
 TCCCAACACAGAGAGCAACAGCCTTCGGCATTCTCAATGGATTATGCAAATTTGGCGCCATCTGGGA
 AACACCATCTTTGCTTCTTTGTTGGGATAACCAAAGTGGTCCCATCTTCTGGCTGCTGCTTCTCTGG
 TTGGGGTGGCCTGATTGCCCTTCGACTGCCAGAGACTCGAGAACAGTCTCTGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230240 representing NM_001167580
 Red=Cloning site Green=Tags(s)

MIVYLGMAGAFILGGLADKLGRKRVLSMSLAVNASFASLSSFVQYGAFLFCRLISGIGIGGALPIVFA
 YFSEFLSREKRGEHL SWLGIFWMTGGLYASAMAWSIIPHYGWF SMGTNYHFHSWRV FVIVCALPCTVSM
 VALKFMPE SPRFLLEMKGHDEAWMILKQVHDTNMRAGTPEKVFTVSNIKTPKQDEFIEIQSSTGTWYQ
 RWLVRFKTI FKQVWDNALYCVMPYRMNTLILAVVWFAMAFSYGLTVWFPMIRYFQDEEYKSKMKVFF
 GEHVYGATINFTMENQIHQHGKLVNDKFRMYFKHVL FEDTFFDECFEDVTSTDTYFKNCTIESTIFYN
 TDLYEHKF INCRF INSTFLEQKEGCHMDLEQDNDFLIYLSVFLGSLSVLPGNII SALLMDRIGRLKMIGG
 SMLISAVCCFFLFFGNSESAMIGWQCLFCGTSIAAWNALDVITVELYPTNQRATAFGILNGLCKFGAILG
 NTIFASVFGITKVVPIILLAAASLVGGGLIALRLPETREQVLM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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: [Q7L1I2](#)

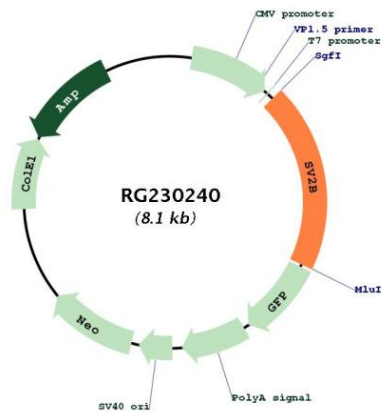
Cytogenetics: 15q26.1

Protein Families: Secreted Protein, Transmembrane

Protein Pathways: ECM-receptor interaction

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 RG230240