

Product datasheet for **MG210019**

Sv2b (NM_153579) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sv2b (NM_153579) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sv2b
Synonyms:	A830038F04Rik; AI850768; mKIAA0735
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG210019 representing NM_153579
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGACTACAGGTATCGGGACAACATGAGGGCTATGCCCTAGTGATGGCTACTACCGTAGCAATG
 AGCAGAATCAGGAAGAAGATGCACAGAGCGATGTTACAGAAGGCCATGACGAGGAAGATGAGATCTATGA
 AGGCGAGTACCAAGGCATCCCTCATCCAGATGATGTCAAGTCTAAGCAGACCAAGATGGCGCCCTCCAGA
 GCAGATGGTCTTGGGGGCCAGGCAGACTTGATGGCTGAGAGGATGGAAGATGAGGAGGAGCTGGCTCACC
 AATATGAGACCATCATTGATGAGTGTGGCCATGGGCGCTTCCAGTGGACCCTCTTCTTCTGCTTGGGTTT
 GGCCTTGATGGCTGATGGAGTGGAAATATTTGTAGTGAGCTTGTCTGCCAAGTGCAGAGAAAGACATG
 TGTCTGCCAGTCCAAGAAAGGAATGCTTGGGCTGATAGTCTACCTAGGAATGATGGCAGGGGCCCTTCA
 TCTTGGGCGGCCCTGGCTGATAAACTGGGAAGGAAGAAGGTCTCAGCATGCTACTGGCCATCAATGCCTC
 CTTTGGCTTCACTCTCCTCTTCTGTCAGGGATATGGAGCCTTCTCTTCTGCAGACTCATCTCAGGCATA
 GGGATTGGGGGCTCCCTGCCAATTGTTTTGCCTACTTTTCTGAGTCTTATCACGAGAGAAACGGGGT
 AGCATCTTAGCTGGCTGGGCATCTTCTGGATGACTGGAGGCATCTATGCATCTGCCATGGCTGGAGCAT
 CATTCCACACTATGGCTGGGGCTTCCAGCATGGGGACTAATTACCCTTCCACAGCTGGAGAGTGTGTC
 ATCGTCTGTGCTCTGCCCGCCACTGTGTCCATGGTGGCTCTGAAGTTCATGCCAGAAAGCCCCAGGTTCC
 TGCTGGAGATGGGCAAACATGATGAAGCCTGGATGATTCTCAAACAAGTCCATGATACAAACATGAGAGC
 TAAGGGGACCCCGAAAAGGTGTTACGGTTCACGCTTCCACATCAAACTCCCAAGCAAATGGATGAATTCATT
 GAGATACAGAGCTCAACCGAACTTGGTACCAGCGCTGGCTGGTCAAGTTCATGACCATTTTCAAACAGG
 TCTGGGATAACGCCTTGTACTGTGTGATGGGGCCCTACAGAATGAACACCCTGATTCTGGCTGGTCTG
 GTTACCATGGCCTTAAGTTACTACGGCCTGACGGTGTGGTTCCTCCGACATGATCCGCTATTTCCAGGAT
 GAAGAATAAAGTCTAAAATGAAGTGTTTTTGGTGAGCACGTGCATGGCGCCACGATCAACTTTACCA
 TGGAAAACCAGATCCACCAACATGGGAAGCTTGTGAACGATAAGTTCATAAAGATGATTTTTAAACATGT
 CCTCTTTGAGGACACATTTTGTGACAAATGCTATTTTGAAGATGTGACATCCACAGATACGTATTTCAAG
 AACTGCACCATCGAATCGACCACCTTCTACAACACAGACCTCTACAAACACAAGTTCATCAACTGTCGGT
 TTATCAATCCACCTTTCTGGAGCAGAAGGAGGGCTGCCACATGGACTTTGAAGAGGACAATGATTTTCT
 GATTTACCTCGTCAGCTTCTCGGCAGCCTCTCTGTCTTGCTGGGAACATAATTTCTGCCCTGCTCATG
 GACAGAATTGGAAGACTCAAGATGATTGGCGGCTCCATGCTCATCTCTGCAGTCTGCTGCTTCTTCTGT
 TTTTTGGCAACAGCGAGTCTGCGATGATCGGCTGGCAATGCCTGTCTGTGGGACCAGCATTGCAGCCTG
 GAATGCTCTGGATGTGATCACAGTTGAGCTGTATCCCACCAACCAGAGGGCCACGGCCTTCGGCATCCTC
 AACGGACTGTGCAAGTTTGGGGCCATCCTGGGAAACACTATCTTTGCTTCTTTTGTGGGATAACCAAAG
 TGGTCCCCATCCTTCTGGCTGCTGCTTCTGTTGGAGGTGGCCTGATTGCCCTTCGATTGCCAGAGAC
 TCGAGAGCAAGTCTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210019 representing NM_153579
 Red=Cloning site Green=Tags(s)

MDDYRYRDNYEGYAPSDGYYSNEQNQEEDAQSDVTEGHDEEDEIYEGEYQGIPHPDDVKSQTKMAPSR
 ADLGGQADLMAERMEDEEELAHQYETIIDECEGHRFQWTLFFVLGLALMADGVEIFVVSFALPSAEKDM
 CLSSSKKGMGLIVYLGMMAGAFILGGLADKLGRKKVLSMSLAINASFASLSSFVQGYGAFLLFCRLISGI
 GIGGSLPIVFAYFSEFLSREKRGEHL SWLGIFWMTGGIYASAMAWSIIPHYGWGFSMGNTNYHFHSWRVVFV
 IVCALPATVSMVALKFMPEsprfLLEMKGHDEAWMILKQVHDTNMRAGTPEKVFTVSHIKTPKQMD EFI
 EIQSSTGTWYQRWLVRFM TIFKQVWDNALYCVMPYRMNTLILAVVWFTMALSYGLTVWFPMIRYFQD
 EEYKSKMKVFFGEHVHGATINFTMENQIHQHGKLVNDKFIKMYFKHVL FEDTFFDKCYFEDV TSTDTYFK
 NCTIESTTFYNTDLYKHKF INCRFINSTFLEQKEGCHMDFEEDNDFLIYLVSFLGSLSVLPGNIISALLM
 DRIGRLKMIIGSMLISAVCCFFLFFGNSESAMIGWQCLFCGT SIAAWNALDVITVELYPTNQRATAFGIL
 NGLCKFGAILGNTIFASFVGITKVVPI LLAASLVGGGLIALRLPETREQVLM

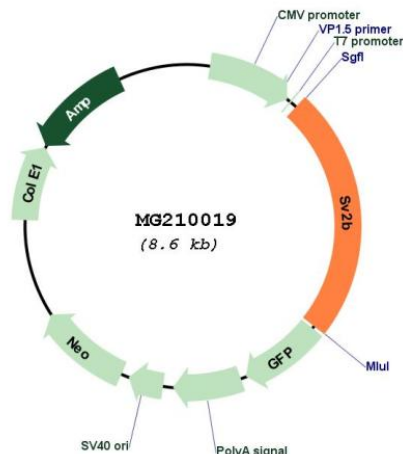
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_153579

ORF Size: 5545 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_153579.4](#), [NP_705807.2](#)

RefSeq Size: 4929 bp

RefSeq ORF: 2052 bp
Locus ID: 64176
UniProt ID: [Q8BG39](#)
Cytogenetics: 7 D1
Gene Summary: Probably plays a role in the control of regulated secretion in neural and endocrine cells.
[UniProtKB/Swiss-Prot Function]