

Product datasheet for **MG217894**

Sv2c (NM_029210) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sv2c (NM_029210) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sv2c
Synonyms:	4930527L09Rik; AI841971
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG217894 representing NM_029210
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGAAGACTCCTACAAGGATAGGACTTACTGATGAAGGGTGCCAAGGACATTGCCAAAGAGGTGAAGA
AGCAGACGGTGAAGAAGGTGAACCAGGCAGTGGATCGGGCCAGGATGAATATACCCAGCGGTCCTACAG
TCGGTTCCAGGATGAAGAGGACGATGATGACTACTACCCACCTGGCGAAACCTACAGTGGGGAGGTCAAT
GATGATGAAGGCTCAAGTGAAGGCACTGAGGGTCACGACGAGGAGGATGAGATCTATGAAGGGAGTACC
AGGGCATCCCCAGCACGAACCAGGGGAAAGACAGCATCGTGTCTGTAGGACAGCCAAAGGTGATGAGTA
CAAGGACCGCAGAGAGCTAGAGTCAGAGAGGAGGGCTGATGAGGAAGAGCTCGCCAGCAGTATGAGCTG
ATAATCCAAGAGTGTGGCCACGGCCGTTCCAGTGGGCCCTTTCTTCGTCCTGGGCATGGCTCTCATGG
CCGATGGCGTGGAGGTGTTGTGGTGGGCTTCGTGCTACCCAGTGCAGAGACAGACCTATGCATACCAA
TTCGGGATCTGGATGGCTAGGTAGCATAGTGTACCTCGGGATGATGGTGGGGCGTTCCTCTGGGGAGGA
CTGGCAGACAAAGTAGGAAGGAAGCAGTCTCTTCGATTTGCATGTCTGTCAACGGATTCTTTGCCCTCC
TCTCCTCATTGTCCAAGGTTACGGCTTCTTTCTCGTCTGTGCGTTGCTTCTGGATTCCGGATTGGAGG
CGCCATCCCCTACTGTGTTCTCCTACTTCGCTGAAGTCTGGCCCGGAGAGAAGCGGGGTGAGCACCTCAGT
TGGCTCTGCATGTTCTGGATGATTGGCGGCATCTACGCCCTCCGCCATGGCCTGGGCCATCATTCCCCT
ACGGGTGGAGCTTCAGCATGGGTTACGCCCTACCAGTCCACAGCTGGCGCGTCTTCGTCATCGTCTGTGC
GCTCCCGTGCCTCCTCTGTGGTGGCTCTCACCTTCATGCCAGAAAGCCCTCGGTTCTTGTCTGGAGGTG
GGAAAACATGATGAAGCCTGGATGATTCTGAAGTTAATTCATGACACCAACATGAGAGCCCGGGCCAGC
CAGAGAAGGTCTTCACGGTAAATAAATCAAGACTCCAAACAAATAGATGAGCTGCGAAATGAGAG
CGACACGGGAACCTGGTACAGGAGGTGTTTCGTTTCGGATCCGCACCGAAGTGTACGGAATTTGGCTGACA
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CCTTCGGTACTATGGGTTGTCCGTTTGGTTCCTGATGTCATTAACATCTCCAGTCTGATGAGTATGC
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ATCCACACTGGAATGGAATACGAGAACGGCAGATTCTCGGAGTCAAGTCAAATCGGTAACCTTCAAAG
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ACCAGCGAATCCATGATGATAGGCATGCTGTGCTTGATAATGGGCTGACCATCTCAGCGTGAATTTCTC
TCGATGTCTGCACGGTGGAACTGTATCCACAGACCGGAGAGCAACGGGCTTCGGCTTCTTGAACGCCCT
CTGTAAAGCGGCGGCCGCTCTGGGAACTTAATCTTCGGCTCCTTGGTACGATCACCAAAGCCATCCCC
ATCCTGCTGGCTTCCACTGTGCTCGTGTGTGGAGGACTCGTGGGGCTGCGCCTGCCCGACACACGAACCC
AGGTTCTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217894 representing NM_029210
 Red=Cloning site Green=Tags(s)

MEDSYKDR TSLMKGAKDIAKEVKKQTVKKVNQAVDRAQDEY TQRSYSRFQDEEDDDYYPPGETYSGEVN
 DDEGSSEATEGHDEEDEIYEGEYQGIPSTNQGKDSIVSVGQPKGDEYKDRRELESERRADEEELAQQYEL
 IIQECGHGRFQWALFFVLGMALMADGVEVFVVGFLVPSAETDLCIPNSGSGWLGSIVYLGMMVGAFFWGG
 LADKVGKRKQSL LICMSVNGFFAFLSSFVQGYGFFLVCRLLSGFGIGGAIPTVFSYFAEVLAREKRGEHLS
 WLCMFWMIGGIYASAMAWAIIPHYGWSFSMGSAYQFHSWRV FVIVCALPCVSSVVALTFMPESPRFLLEV
 GKHDEAWMILKLIHDTNMRARGQPEKVFVTNKIKTPKQIDELIEIESDTGTWYRRCFVRIRTELYGIWLT
 FMRCFNYPVRENTIKLTIWFTLSFGYYGLSVWFPDVIKHLQSDEYALLTRNVQKDKYANFSINFMTENQ
 IHTGMEYENGRFLGVKFKSVTFKDSVFKSCTFDDVTSVNTYFKNCTFIDTLFDNTDFEPYKFIDSEFQNC
 SFLHNKTCQITFDDYSAYWIYFVNFGLTAVLPGNIVSALLMDRIGRLTMLGGSMVLSGISCFFLWFG
 TSEMMIGMLCLYNGLTISAWNSLDVVTVELYPTDRRATGFGFLNALCKAAAVLGNLIFGSLV SITKAIP
 ILLASTVLVCGGLVGLRLPDTRTQVLM

TRTRPLE - GFP Tag - V

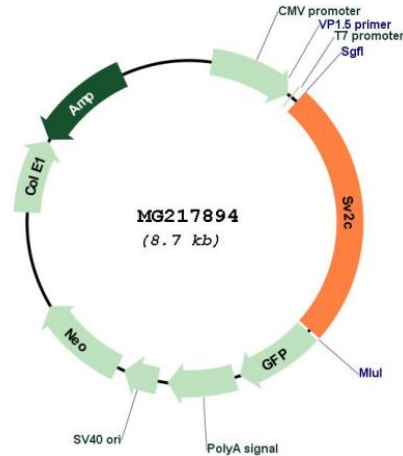
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_029210

ORF Size: 2181 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_029210.1](#), [NP_083486.1](#)

RefSeq Size: 4252 bp

RefSeq ORF: 2184 bp

Locus ID: 75209

UniProt ID: [Q69ZS6](#)

Cytogenetics: 13 D1

Gene Summary: Plays a role in the control of regulated secretion in neural and endocrine cells, enhancing selectively low-frequency neurotransmission. Positively regulates vesicle fusion by maintaining the readily releasable pool of secretory vesicles.[UniProtKB/Swiss-Prot Function]