

## Product datasheet for **MG210408**

### **Sv2a (NM\_022030) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sv2a (NM_022030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sv2a
Synonyms:	AI746429; mKIAA0736
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG210408 representing NM\_022030  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGAAGAAGGCTTTCGAGACCGAGCAGCGTTCATCCGTGGGGCCAAAGACATTGCCAAGGAAGTGAAGA  
 AGCATGCGGCCAAGAAGGTGGTGAAGGGCCTTGACAGAGTCCAGGATGAGTATCCCGAAGGTCCTACTC  
 CCGCTTTGAGGAGGAGGACGACGACGATGACTTCCTGCCCTGCGGACGGCTATTACCGCGGAGAAGGG  
 GCCCAGGATGAGGAGGAAGGTGGCGCTTCTAGTGATGCCACCGAGGGCCACGATGAAGATGATGAGATCT  
 ATGAGGGAGAATATCAGGGCATCCCCGGGCAGAGTCTGGGGGCAAAGGCGAACGATGGCAGATGGGGC  
 ACCCTGGCTGGAGTGAGAGGGGGCTTGAGTGATGGGGAGGGTCCCCCTGGGGTGGGGGGAGGCGCAG  
 CGGCGTAAAGATCGGAAGAATTGGCTCAGCAGTATGAAACCATCCTCCGGGAGTGTGGCCATGGCCGCT  
 TCCAGTGGACACTCTACTTCGTGCTGGTCTGGCGCTGATGGCAGATGGTGTAGAGGTCTTTGTGGTGGG  
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 GTGTACCTGGGCATGATGGTGGGGCCTTCCTCTGGGGAGGCCTGGCTGATCGGCTGGGTGGGAGACAGT  
 GTCTGCTCATCTCACTCTCAGTCAACAGCGTCTTCGCCTTCTTCTCGTCCTTCGTCAGGGTTATGGAAC  
 CTTTCTCTTCTGCCGCTCCTTTCCGGGGTGGGATTGGCGGTTCCATCCCCATAGTCTTCTCCTATTTT  
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 TGAAGCAGGTTACGACACCAACATGCGAGCCAAGGGCCACCCTGAGCGCGTCTTCTCAGTGACCCACAT  
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 GGAGTACGGGCTTTGAGCCTTGGGGTCAAGTTTGGGGGAATTCCTCTCCTGCTTCAGTCCAGAGTATC  
 GGCGCATCAGCTGATGATGATGGGTGTGTGGTTCACCATGTCTTTCAGTACTATGGTTTGACTGTCTG  
 GTTTCGGACATGATCCGCCATCTCCAGGCTGTGGACTATGCAGCCGAACCAAAGTGTCCAGGGGAG  
 CGCGTGGAGCATGTGACGTTTAACTTCACACTGGAGAATCAGATCCACCGAGGGGACAGTACTTCAATG  
 ACAAGTTCATCGGGCTGCGTCTGAAGTCAGTGTCTTTGAGGATTCCTGTTTGGAGAGTGTACTTTGA  
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 CTATTTGAGTACAAGTTCGTGAACAGCCGGCTGGTGAACAGCACGTTCTGCACAATAAGGAAGGCTGCC  
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 TGTGCTTCTGGAACATTGTGTCTGCTGCTCATGGACAAGATTGGCAGGCTCAGAATGCTTGCTGGT  
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 CCCTTCCGACAAGAGGACTACTGCCTTTGGCTTCTGAATGCCCTGTGTAAGCTGGCAGCTGTGCTGGGG  
 ATCAGCATCTTCACATCTTTGTGGGCATACCAAGGCTGCTCCATTCTCTTGCCTCGGCTGCTCTTG  
 CCCTTGGTAGCTCTCTGGCTCTGAAGCTGCCTGAGACCCGGGGACAGGTGCTGCAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210408 representing NM\_022030  
 Red=Cloning site Green=Tags(s)

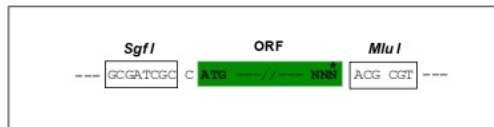
MEEGFRDRAAFIRGAKDIAKEVKKHAACKVVKGLDRVQDEYSRRYSRFEEDDDDDFPAPADGYRGEQ  
 AQDEEEGGASSDATEGHDEDEIYEGEYQGIPIAESGGKGERMADGAPLAGVRGGLSDGEGPPGGRGEAQ  
 RRKDREELAQQYETILRECGHGRFQWTL YFVLGLALMADGVEVFVVGFLPSAEKDMCLSDSNKGMGLI  
 VYLGMVGAFLWGGLADRLGRRQCLLISLSVNSVFAFFSSVFQGYGTFLFCRLLSGVGIGGSIPIVFSYF  
 SEFLAQEKRGHLSWLCMFWMIGGVYAAAMAWAIIPHYGWSFQMGSA YQFHSWRVFLVCAFPSVFAIGA  
 LTTQPESPRFFLENGKHDEAWMLKQVHDTNMRAGHPERVS VTHIKTIHQEDELIEIQSDTGTWYQRW  
 GVRALSLGGQVWGNFLSCFSPEYRRITLMMGVWFTMSFSYYGLTVWFPDMIRHLQAVDYAARTKVFPGE  
 RVEHVTNFNTLENQIHRGGQYFNDKFIGRLKSVSFEDSLFEECYFEDVTSSNTFFRNCTFINTVFYNTD  
 LFEYKFVNSRLVNSTFLHNKEGCPLDVTGTGEGAYMVYFVSFLGTLAVLPGNIVSALLMDKIGRLRLLAG  
 SSVLSCVSCFFLSFGNSESAMIALCLFGGVSIASWNALDVLTVEL YPSDKRTTAFGFLNALCKLA AVLG  
 ISIFTSFVGITKAAPILFASAALALGSSLALKLPETRQQVLQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

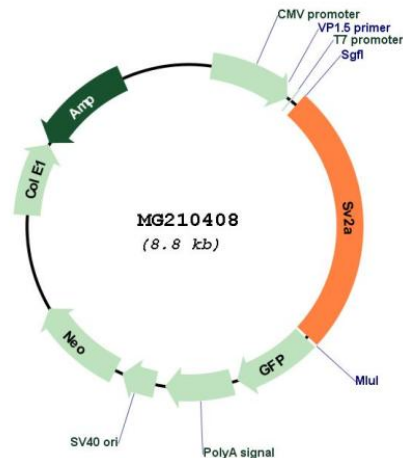
Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoR I BamH I Kpn I RBS Kozac Consensus Sgf I Asc I  
 CTATAGGGCGGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT  
 Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag  
 CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -  
 T R T R P L E M E S D - - -  
 Pme I Fse I  
 - - - GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT  
 - - - E E R V Stop

Plasmid Map:



ACCN: NM\_022030

ORF Size: 2226 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\\_022030.3](#), [NP\\_071313.1](#)

RefSeq Size: 3920 bp

RefSeq ORF: 2229 bp

Locus ID: 64051

UniProt ID: [Q9JIS5](#)

Cytogenetics: 3 F2.1

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]