

Product datasheet for **MR210408**

Sv2a (NM_022030) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sv2a (NM_022030) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sv2a
Synonyms:	A1746429; mKIAA0736
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210408 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGAAGGCTTTCGAGACCGAGCAGCGTTCATCCGTGGGGCCAAAGACATTGCCAAGGAAGTGAAGA
AGCATGCGGCCAAGAAGGTGGTGAAGGGCCTTGACAGAGTCCAGGATGAGTATCCCGAAGGTCCTACTC
CCGCTTTGAGGAGGAGGACGACGACGATGACTTCCTGCCCTGCGGACGGCTATTACCGCGGAGAAGGG
GCCAGGATGAGGAGGAAGGTGGCGCTTCTAGTGATGCCACCGAGGGCCACGATGAAGATGATGAGATCT
ATGAGGGAGAATATCAGGGCATCCCCGGGCAGAGTCTGGGGCAAAGGCCAAGCATGGCAGATGGGGC
ACCCCTGGCTGGAGTGAGAGGGGGCTTGAAGTGGGGAGGGTCCCCTGGGGTTCGGGGGAGGGCGCAG
CGGCGTAAAGATCGGAAGAATTGGCTCAGCAGTATGAAACCATCCTCCGGGAGTGTGGCCATGGCCGCT
TCCAGTGGACACTCTACTTCGTGCTGGTCTGGCGCTGATGGCAGATGGTGTAGAGGTCTTTGTGGTGGG
CTTTGTGCTGCCAGTGTGAGAAAGACATGTGCCTGTGCGACTCCAACAAGGCATGCTAGGCCTCATT
GTGTACCTGGGCATGATGGTGGGGCCTTCTCTGGGGAGGCCTGGCTGATCGGCTGGGTTCGGAGACAGT
GTCTGCTCATCTCACTCTCAGTCAACAGCGTCTTCGCCTTCTTCTCGTCCTTCGTCCAGGGTTATGGAAC
CTTTCTTCTTCCGCGCTCCTTTCCGGGGTTCGGGATTGGCGGTTCCATCCCCATAGTCTTCTCCTATTTT
TCGGAGTTTTCGGCGCAGGAGAAACGTGGGGAGCATTGAGCTGGCTCTGTATGTTCTGGATGATCGGTG
GAGTGTATGCAGCTGCAATGGCTGGGCCATCATCCCTCACTATGGGTGGAGTTTCCAGATGGGCTCTGC
TTACCAGTCCACAGCTGGAGGGTGTGTGCTCGTGTGTGCCTTCCCTCTGTGTTGCCATCGGGCT
CTGACTACGCAGCCAGAGAGTCCCCGCTTCTTCTAGAGAATGGGAAGCATGACGAAGCCTGGATGGTAC
TGAAGCAGGTTACGACACCAACATGCGAGCCAAGGGCCACCCTGAGCGCTCTTCTCAGTGACCCACAT
TAAACGATTTCATCAAGAGGATGAATTGATTGAGATCCAGTCTGACACAGGAACCTGGTACCAGCGCTGG
GGAGTACGGGCTTTGAGCCTTGGGGTCAAGTTTGGGGGAATTCCTCTCCTGCTTCAGTCCAGAGTATC
GGCGCATCAGCTGATGATGATGGGTGTGTGGTTCACCATGTCTTTCAGTACTATGGTTTGACTGTCTG
GTTTCCCGACATGATCCGCCATCTCCAGGCTGTGGACTATGCAGCCCAACCAAAGTGTCCAGGGGAG
CGCGTGGAGCATGTGACGTTTAACTTCACTGGAGAATCAGATCCACCGAGGGGACAGTACTTCAATG
ACAAGTTCATCGGGCTGCGTCTGAAGTCAAGTGCCTTTGAGGATCCCTGTTTGGAGTGTACTTTGA
AGATGTTACATCCAGCAACACATTTCCGCAACTGCAGTTCATCAACTGTGTTCTATAAAGTACTGAC
CTATTTGAGTACAAGTTCGTGAACAGCCGGCTGGTGAACAGCACGTTCCCTGCACAATAAGGAAGGCTGCC
CGCTAGACGTGACGGGGACAGGCGAAGGTGCCTACATGGTGTACTTTGTCAGCTTCTTGGGGACACTGGC
TGTGCTTCCCTGGAACATTGTGTCTGCTGCTCATGGACAAGATTGGCAGGCTCAGAATGCTTGCTGGT
TCCAGTGTGTTGCTGTGTGCTGCTTCTTCTGCTTTTTGGGAACAGCGAGTCCAGCCATGATCGCTC
TGCTCTGCCTTTTTGGGGAGTTAGCATCGCATCCTGGAACGCGCTGGACGTGCTGACCGTTGAGCTCTA
CCCTTCCGACAAGAGGACTACTGCCTTTGGCTTCTGAATGCCCTGTGTAAGCTGGCAGCTGTGCTGGG
ATCAGCATCTTACATCCTTTGTGGGCATACCAAGGCTGCTCCATTCTTTGCCTCGGCTGCTCTTG
CCCTTGGTAGCTCTTGCTCTGAAGCTGCCTGAGACCCGGGGACAGGTGCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210408 protein sequence
 Red=Cloning site Green=Tags(s)

MEEGFRDRAAFIRGAKDIAKEVKKHAACKVVKGLDRVQDEYSRRSRSRFEEDDDDDFFPAPADGYRGEQ
 AQDEEEGGASSDATEGHDEDEIYEGEYQGI PRAESGGKGERMADGAPLAGVRGGLSDGEGPPGGRGEAQ
 RRKDREELAQQYETILRECGHGRFQWTL YFVLGLALMADGVEFVVGFLVPSAEKDMCLSDSNKMGMLGLI
 VYLGMVGAFLWGGLADRLGRRQCLLISLSVNSVFAFFSSVFQGYGTFLFCRLLSGVIGGSIPIVFSYF
 SEFLAQEKRGEHLSWLCMFWMIGGYAAAMAWAIIPHYGWSFQMGSA YQFHSWRVFLVCAFPVFAIGA
 LTTQPE SPRFFLENGKHDEAWMLKQVHDTNMRAKGHPERVFSVTHIKT IHQEDELIEIQSDTGTWYQRW
 GVRALSLGGQVWGNFLSCFSPEYRRITLMMGVWFTMSFSYYGLTVWFPDMIRHLQAVDYAARTKVFPGE
 RVEHVTNFNTLENQIHRGGQYFNDKFIGLR LKSVSFEDSLFEECYFEDVTSNTFFRNCTFINTVFYNTD
 LFEYKFNVSRLVNSTFLHNKEGCPLDVTGTGEGAYMVYFVSLGTLAVLPGNIVSALLMDKIGRLRLMAG
 SSVLSCVSCFFLSFGNSESAMIALLC LFGGVSIA SWNALDVLTVEL YPSDKRTTAFGFLNALCKLA AVLG
 ISIFTSFVGITKAAPILFASAALALGSSLALKLPETRGQVLQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022030

ORF Size: 2229 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

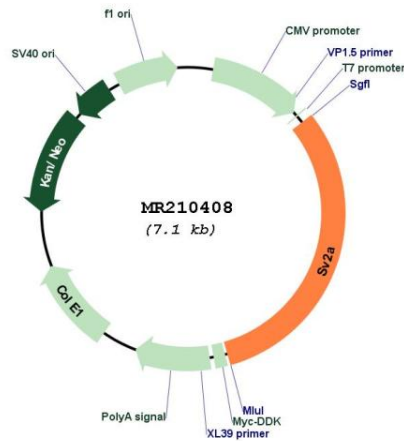
UniProt ID: [Q9JIS5](#)

Cytogenetics: 3 F2.1

MW: 82.6 kDa

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]

Product images:



Circular map for MR210408