

Product datasheet for **RG236469**

SV2A (NM_001278719) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SV2A (NM_001278719) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SV2A
Synonyms: SV2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236469 representing NM_001278719.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACTGCCTGCTTATCTTGGCCTTTGCCACAGACCTGTTGAGTACAAGTTTGTGAACAGCCGCTCTG
ATAAACAGTACATTCTGCACAACAAGGAGGGCTGCCCGTAGACGTGACAGGGACGGCGAAGGTGCC
TACATGGTATACTTTGTGAGCTTCTGGGGACTGCGCAGTGCTTCTGGGAATATCGTGTCTGCCCTG
CTCATGGACAAGATCGGCAGGCTCAGAATGCTTGGCTCCAGCGTGATGTCCTGTGTCTCCTGCTTC
TTCTGTCTTTTGGGAACAGTGAGTCGGCCATGATCGCTCTGCTCTGCCTTTTGGCGGGTCAGCATT
GCATCCTGGAATGCGCTGGACGTGTTGACTGTTGAACTCTACCCCTCAGACAAGAGGACCACAGCTTTT
GGCTTCTGAATGCCCTGTGTAAGCTGGCAGCTGTGCTGGGGATCAGCATCTTCACATCCTTCGTGGGA
ATCACCAAGGCTGCACCCATCCTCTTGGCTCAGCTGCCCTTGGCCTTGGCAGCTCTGCGCCCTGAAG
CTGCGCTGAGACCCGGGGCAGGTGCTGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

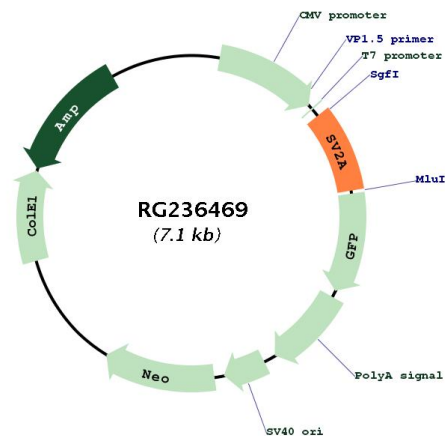
Protein Sequence: >Peptide sequence encoded by RG236469
Blue=ORF Red=Cloning site Green=Tag(s)

```
MTACLSWPLPTDLFEYKFNSRLINSTFLHNKEGCPLDVTGTGEGAYMVYFVSFLGTLAVLPGNIVSAL
LMDKIGRLRMLAGSSVMSCVSCFFLSFGNSESAMIALLCLFGGVSIASWNALDVLTVELYPSDKRTAF
GFLNALCKLAAVLGISIFTSFGVITKAAPILFASAALALGSSLALKLPETRGQVLQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001278719

ORF Size: 582 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).

RefSeq:	<u>NM_001278719.1, NP_001265648.1</u>
RefSeq Size:	2394 bp
RefSeq ORF:	585 bp
Locus ID:	9900
UniProt ID:	<u>Q7L0J3</u>
Cytogenetics:	1q21.2
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	ECM-receptor interaction
MW:	21.1 kDa
Gene Summary:	The protein encoded by this gene is one of three related synaptic vesicle proteins. The encoded protein may interact with synaptotagmin to enhance low frequency neurotransmission in quiescent neurons. [provided by RefSeq, Jun 2016]