

## Product datasheet for **RC212245**

### SV2C (NM\_014979) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SV2C (NM_014979) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SV2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC212245 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGAAGACTCTTACAAGGATAGGACTTACTGATGAAGGGTGCCAAGGACATTGCCAGAGAGGTGAAGA  
AACAAACAGTAAAGAAGGTGAATCAAGCTGTGGACCGAGCCAGGATGAATACACCCAGAGGTCTACAG  
TCGGTTCCAAGATGAAGAAGATGATGATGACTACTACCCGGCTGGAGAAACCTATAATGGTGAGGCCAAC  
GATGACGAAGGCTCAAGTGAAGCCACTGAGGGGCATGATGAAGATGATGAGATCTATGAGGGGAGTATC  
AGGGCATCCCCAGTATGAACCAAGCGAAGGACAGCATCGTGTGAGTGGGCGAGCCCAAGGGCGATGAGTA  
CAAGGACCGACGGGAGCTGGAATCAGAAAGGAGAGCTGACGAGGAAGAGTTAGCCAGCAGTATGAGCTG  
ATAATCCAAGAATGCGGTATGGTCTTTTCAGTGGGCCCTTTTCTTCGTCCTGGGCATGGCTCTTATGG  
CAGACGGTGTAGAGGTGTTTGTGCTGGCTTCGTGTTACCCAGTGTGAGACAGACCTCTGCATCCCAAA  
TTCAGGATCTGGATGGCTAGGCAGCATAGTGTACCTCGGGATGATGGTGGGGCGTCTTCTGGGGAGGA  
CTGGCAGACAAAGTGGGAAGGAAACAGTCTCTTGATTTGCATGTCTGTCAACGGATTCTTTGCCCTTCC  
TTTCTTCAATTTGTCCAAGGTTATGGCTTCTTCTCTTCTGTCGCTTACTTTCTGGATTCCGGATTGGAGG  
AGCCATACCCACTGTGTTCTCGTACTTTGCTGAAGTCTGGCCCGGAAAAGCGGGGCGAACACTTGAGC  
TGGCTCTGCATGTTCTGGATGATCGGTGGCATCTACGCCCTGCCATGGCCTGGGCCATCATCCCGCACT  
ACGGGTGGAGCTTCAAGTGGATCGGCCCTACCAGTTTACAGTTGGCGTGTGTTTGTATCGTCTGTGC  
ACTCCCCTGTGTCTCCTCCGTGGTGGCCCTCACATTCATGCTGAAAGCCACGATCCTTGTGGAGGTT  
GGAAAACATGATGAAGCTTGGATGATTCTGAAGTTAATTCATGACACCAACATGAGAGCCCGGGTCAGC  
CTGAGAAGGTCTTCACGGTAAACAAAATAAAAACCTCCTAAACAAATAGATGAGCTGATTGAAATGAGAG  
TGACACAGGAACATGGTATAGGAGGTGTTTGTTCGGATCCGCACCGAGCTGTACGGAATTTGGTTGACT  
TTTATGAGATGTTTCAACTACCCAGTCAAGGATAATAACAATAAAGCTTACAATTGTTGGTTACCCCTGT  
CCTTTGGTACTATGGATTATCCGTTTGGTTCCCTGATGTCATTAACCTCTGCAGTCCGATGAATATGC  
ATTGCTAACCAGAAATGTGGAGAGAGATAAATATGCAATTTCACTATTAACCTTACAATGGAAAATCAG  
ATTCATACTGGAATGGAATACGACAATGGCAGATTCATAGGGGTCAAGTTCAAATCTGTAACCTTCAAAG  
ACTCTGTTTTTAAGTCTGCACCTTTGAGGATGTAACCTCAGTGAACACCTACTTCAAGAAGTGCACATT  
TATTGACACTGTTTTTGACAACACAGATTTTGGCCATATAAATTCATTGACAGTGAATTTAAAACTGC  
TCGTTTTTTCACAACAAGACGGGATGTCAGATTACCTTTGATGATGACTATAGTGCCTACTGGATTTATT  
TTGTCAACTTTCTGGGGACATTGGCAGTATTGCCAGGGAACATTTGTCTGCTCTGCTGATGGACAGAAT  
TGGGCGCTTAAACAATGCTAGGTGGCTCTATGGTCTTTTCGGGGATCAGCTGTTTCTTCTTTGGTTTCGGC  
ACCAGTGAATCCATGATGATAGGCATGCTGTGTCTGTACAATGGATTGACCATCTCAGCCTGGAAGTCTC  
TTGACGTGGTCACTGTGGAAGTGTACCCACAGACCGGAGGGCAACAGGCTTTGGCTTCTTAAATGCGCT  
ATGCAAGGCAGCAGCCGCTCCTGGGAACTTAATATTTGGCTCTCTGGTCAAGCATCAACAAATCAATCCCC  
ATCCTGCTGGCTTCTACTGTGCTCGTGTGTGGAGGACTCGTTGGGCTGTGCTGCTGACACACGAACCC  
AGGTTCTGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212245 protein sequence  
 Red=Cloning site Green=Tags(s)

MEDSYKDR TSLMKGAKDIAREVKKQTVKKVNQAVDRAQDEY TQRSYSRFQDEEDDDDDYYPAGETYNGEAN  
 DDEGSSEATEGHDEDEIYEGEYQGIPSMNQAKDSIVSVGQPKGDEYKDRRELESERRADEEELAQQYEL  
 IIQECGHGRFQWALFFVLGMALMADGVEFVVGFLPSAETDLCIPNSGSGWLGSIVYLGMMVGAFFWGG  
 LADKVGRKQSL LICMSVNGFFAFLSSFVQGYGFFLFCRLLSGFGIGGAIPTVFSYFAEVLAREKRGEHLS  
 WLCMFWMIGGIYASAMAWAIIPHYGWSFSMGSAYQFHSWRV FVIICALPCVSSVVALTFMPESPRSLLEV  
 GKHDEAWMILKLIHDTNMRARGQPEKVFTVNKIKTPKQIDELIEIESDTGTWYRRCFVRIRTELYGIWLT  
 FMRCFNYPVRDNTIKLTIWFTLSFGYYGLSVWFPDVIKPLQSDEYALLTRNVERDKYANFTINFTMENQ  
 IHTGMEYDNGRFIGVKFKSVTFKDSVFKSCTFEDVTSVNTYFKNCTFIDTVFDNTDFEPYKFIDSEFKNC  
 SFFHNKTCQITFDDYSAYWIYFVNFGLTAVLPGNIVSALLMDRIGRLTMLGGSMVLSGISCFFLWFG  
 TSEMMIGMLCLYNGLTISAWNSLDVVTVELYPTDRRATGFGFLNALCKAAAVLGNLIFGSLV SITKSIP  
 ILLASTVLVCGGLVGLCLPDRTRQVLM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6714\\_g03.zip](https://cdn.origene.com/chromatograms/mk6714_g03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



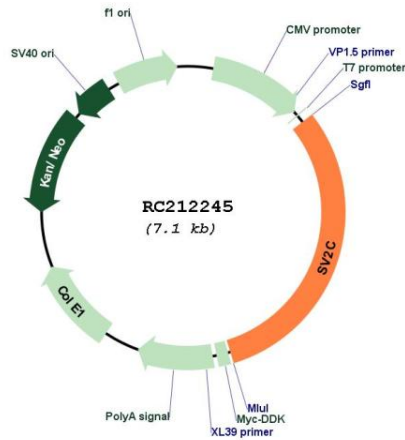
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_014979

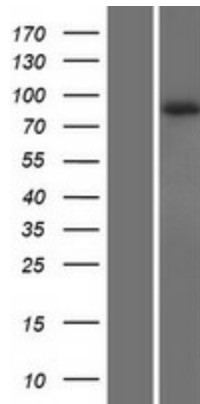
**ORF Size:** 2181 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014979.4</a>
<b>RefSeq Size:</b>	10801 bp
<b>RefSeq ORF:</b>	2184 bp
<b>Locus ID:</b>	22987
<b>UniProt ID:</b>	<a href="#">Q496J9</a>
<b>Cytogenetics:</b>	5q13.3
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	ECM-receptor interaction
<b>MW:</b>	82.3 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC212245



Western blot validation of overexpression lysate (Cat# [LY414875]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212245 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).