

Product datasheet for **RC207864**

SVOPL (NM_174959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SVOPL
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC207864 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCGCTGGAAGGTTAATCATAAAGACTGAATTTTGGCCACGAAATACCGAGGCTATATGTTACCT
TGTCTCAGGTGTTCTGGCTTGGGGCTCCCTGCTCATATTGGCTTGGCTCTGTGATCATCCCCACCAT
CGGGTGGCGCTGGCTCATTGCGCTCGCCTCCATCCCGGCATCATCCTCATCGTGGCCTTCAAGTTTATT
CCTGAATCTGCCCGGTTCAATGTCTCCACTGGGAACACTCGGGCTGCCCTGGCCACTCTGGAGCGCGTTG
CCAAGATGAACCGCTCGGTATGCCGAGGGGAAGCTGGTGGAGCCCGTCTGGAAAAAGAGGAAGATT
TGCAGACCTATTGGATGCTAAATATTTACGGACCACATTACAGATCTGGGTATATGGCTTGAATCTCT
TTTGCCTACTATGGGGTTATCCTGGCCAGTGCTGAGCTGCTGGAGCGGGACTTGGTCTGTGGTTCAAAGT
CAGACTCTGCGGTGGTGGTGAATGGGGGGACTCAGGGGAGAGCCAGAGCCCTGCTACTGCCACATGTT
TGCACCCTCTGACTATCGGACCATGATCATCAGCACCATCGGTGAAATTGCTTTGAATCCTTTAAATATA
CTGGGCATCAATTTCTGGGAAGACGGCTGAGCCTTTCTATTACCATGGGATGCACGGCTTTATTCTTCC
TTCTCCTCAACATTTGCACTTCAAGTGCCGGCCTGATTGGCTTCTCTTATGCTGAGGGCTCTGGTAGC
TGCAAACTTCAACACCGTCTACATTTACACAGCTGAGGTCTACCCACACGATGCGCGCTTTGGGGATG
GGAACCAGCGGCTCCCTGTGTCGATTGGTGAATGGTGGCGCCATTTATATCCAGGTTCTTATGAGTG
CATCAATACTGGGGCCCTGTGTCTCTTCTCATCTGTCTGTGTATGCGCCATTTCTGCATTCACTCT
CCCCATCGAAACCAAAGGACGGGCCCTCCAGCAAATTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC207864 protein sequence
Red=Cloning site Green=Tags(s)

MAAGRLIKTEFLPTKYRGYMLPLSQVFWLAGSLLIIGLASVIPTIGWRWLIRVASIPGIILIVAFKFI
PESARFNVSTGNTRAALATLERVAKMNRSMVEGKLVEPVLEKGRFADLLDAKYLRRTLQIWWIWLGIS
FAYYGVILSAELLERDLVCGSKSDSAVVVTGGDSSQSPCYCHMFAPSDYRTMITSTIGEIALNPLNI
LGINFLGRRLSLSTITGCTALFLLNLICTSSAGLIGFLMLRALVAANFTVYIYAEEVYPTTMRALGM
GTGSLCRIGAMVAFIISOVLSMALINLGCALFSSVCVCAFTAFTLPIETKGRALQOIK

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms:

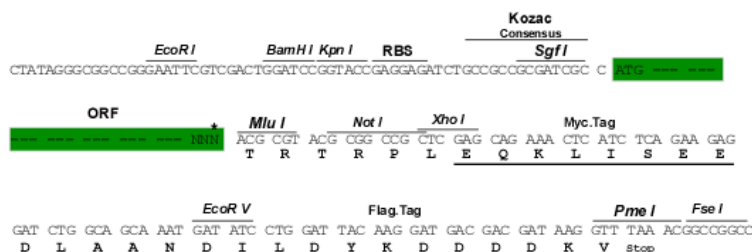
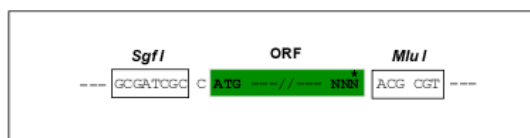
https://cdn.origene.com/chromatograms/mk6516_d11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_174959

ORF Size:

1020 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:

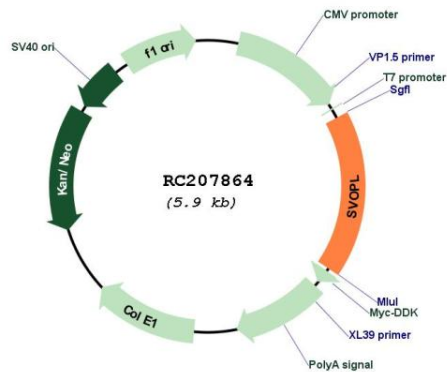
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

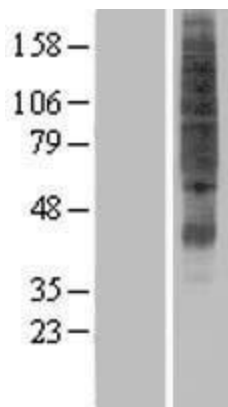
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_174959.1, NP_777619.1</u>
RefSeq Size:	1441 bp
RefSeq ORF:	1023 bp
Locus ID:	136306
UniProt ID:	<u>Q8N434</u>
Cytogenetics:	7q34
Protein Families:	Transmembrane
MW:	36.9 kDa
Gene Summary:	The protein encoded by this gene is thought to be a member of solute carrier family 22, which includes transmembrane proteins that transport toxins and drugs from the body. This gene is a paralog of the SVOP gene that encodes synaptic vesicle 2-related protein. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC207864



Western blot validation of overexpression lysate (Cat# [LY406355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207864 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).