

## Product datasheet for **RC224636**

### **SERINC5 (NM\_178276) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SERINC5 (NM_178276) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SERINC5
Synonyms:	C5orf12; TPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC224636 representing NM\_178276  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAGCTCAGTGTGCGGGCCAGCTGGCCTGCTGTGGGTCTGCAGGCTGCTCTCTGCTGTG  
 ATTGCTGCCCCAGGATTCGGCAGTCCCTCAGCACCCGCTTCATGTACGCCCTCTACTTCATTCTGGTCGT  
 CGTCCTCTGCTGCATCATGATGTCAACAACCGTGGCTCACAAGATGAAAGAGCACATTCCTTTTTTTGAA  
 GATATGTGTAAAGGCATTAAGCTGGTACACCTGTGAGAAGCTGGTGGGATATTCTGCCGTGTATAGAG  
 TCTGTTTTGGAATGGCTTGTCTTCTTTATCTTCTGTCTACTGACCTTGAAAATCAACAACAGCAAAAAG  
 TTGTAGAGCTCATATTCACAATGGCTTTTGGTTCTTAAACTTCTGCTGTTGGGGCCATGTGCTCAGGA  
 GCTTTCTTATTCCAGATCAGGACACCTTTCTGAACGCCTGGCGTATGTGGAGCCGTCGGAGGCTTCC  
 TCTTCATTGGCATCCAGCTCCTCTGCTGTGGAGTTTGACATAAGTGGAAACAAGAACTGGACAGCAGG  
 CACAGCCAGTAACAAGCTGTGGTACGCCCTCCCTGGCCCTGGTACGCTCATCATGTATTCCATTGCCACT  
 GGAGGCTTGGTTTTGATGGCAGTGTATACACAGAAAGACAGCTGCATGGAAAACAAAATTCTGCTGG  
 GAGTAAATGGAGGCTGTGCCTGCTTATCATTGGTAGCCATCTCACCTGGGTCCAAAATCGACAGCC  
 ACACTCGGGGCTTTACAATCAGGGGTCAAGCTGCTATGTCACCTACCTCACCTTCTCAGCTCTGTCC  
 AGCAAACCTGCAGAAGTAGTTCTAGATGAACATGGGAAAAATGTTACAATCTGTGTGCCTGACTTTGGTC  
 AAGACCTGTACAGAGATGAAAACCTGGTACTATACTGGGGACCAGCCTTAATCGGATGTATCTTGTA  
 TTCATGTTTGACATCAACAACAAGATCGAGTCTGACGCTCTGCAGGGCGATACGCAGCTCCTGAATTG  
 GAGATAGCTCGCTGTTGTTTTGCTTCAGTCTGGTGGAGAGGACACTGAAGAGCAGCAGCCGGGAAGG  
 AGGGACCACGGGTCATTTATGACGAGAAGAAAGGCACCGTCTACATCTACTCTACTTCCACTTCGTGTT  
 CTCTAGCTTCCCTGTATGTGATGATGACCGTCACCAACTGGTCAACCATGTAAGAAGTGCCTTTCAC  
 CTCCTGCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224636 representing NM\_178276  
 Red=Cloning site Green=Tags(s)

MSAQQCAGQLACCCGSAGCSLCCDCCPRIRQSLSTRFMYALYFILVVVLCIMMSTTVAHKMKHEIPFFE  
 DMCKGIKAGDTCEKLVGYSAVYRVCFGMACFFFIFCLLTLKINNSKSCRAHIHNGFWFFKLLLLGAMCSG  
 AFFIPDQDTFLNAWRVYGAVGGFLFIGIQLLLLVEFAHKWNKNWTAGTASNKLWYASLALVTLIMYSIAT  
 GGLVLMAVFYTQKDSMKNKILLGVNGLCLLISLVAISPWVQNRQPHSGLLQSGVISCYVTYLTFALS  
 SKPAEVVLDHGNVTICVPDFGQDLYRDENLVTILGTSLLIGCILYSCLTSTTRSSDALQGRYAAPEL  
 EIAKCCFCFSPGGEDTEEQPGKEGPRVIYDEKGTVYIYSYFHFVFFLASLYVMMVTNWFNHRSAFH  
 LLP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8058\\_h01.zip](https://cdn.origene.com/chromatograms/mk8058_h01.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_178276

**ORF Size:** 1269 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\\_178276.7](#)

**RefSeq Size:** 1907 bp

**RefSeq ORF:** 1272 bp

**Locus ID:** 256987

**UniProt ID:** [Q86VE9](#)

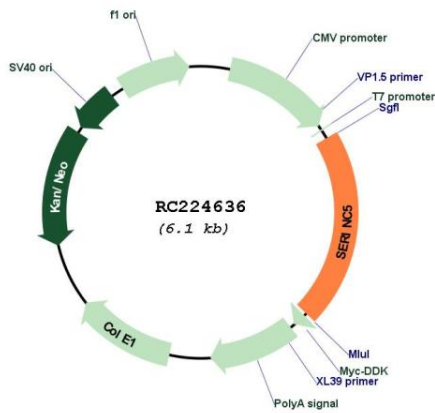
**Cytogenetics:** 5q14.1

**Protein Families:** Transmembrane

**MW:** 46.8 kDa

**Gene Summary:** Restriction factor required to restrict infectivity of lentiviruses, such as HIV-1: acts by inhibiting an early step of viral infection. Impairs the penetration of the viral particle into the cytoplasm (PubMed:26416733, PubMed:26416734). Enhances the incorporation of serine into phosphatidylserine and sphingolipids. May play a role in providing serine molecules for the formation of myelin glycosphingolipids in oligodendrocytes (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC224636