

## Product datasheet for RC230051

### SERINC5 (NM\_001174071) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERINC5 (NM_001174071) 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)
ORF Nucleotide Sequence:	>RC230051 representing NM_001174071 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGCTCAGTGTGCGGGCCAGCTGGCCTGCTGCTGTGGGTCTGCAGGCTGCTCTCTGCTGTG  
ATTGCTGCCCCAGGATTCGGCAGTCCCTCAGCACCCGCTTCATGTACGCCCTCTACTTCATTCTGGTCGT  
CGTCTCTGCTGCATCATGATGTCAACAACCGTGGCTCACAAGATGAAAGAGCACATTCTTTTTTTGAA  
GATATGTGTAAGGCATTAAAGCTGGTACACCTGTGAGAAGCTGGTGGGATATTCTGCCGTGTATAGAG  
TCTGTTTTGGAATGGCTTGTCTTCTTTATCTTCTGTCTACTGACCTTAAAAATCAACAACAGCAAAAG  
TTGTAGAGCTCATATTCACAATGGCTTTTGGTTCTTTAAACTTCTGCTGTTGGGGCCATGTGCTCAGGA  
GCTTTCTTCAATCCAGATCAGGACACCTTTCTGAACGCCTGGCGCTATGTGGGAGCCGTCGGAGGCTTCC  
TCTTCATTGGCATCCAGCTCCTCCTGCTCGTGGAGTTTGACATAAGTGGAAACAAGAACTGGACAGCAGG  
CACAGCCAGTAACAAGCTGTGGTACGCCTCCCTGGCCCTGGTACGCTCATCATGTATTCCATTGCCACT  
GGAGGCTTGGTTTTGATGGCAGTGTATACACAGAAAGACAGCTGCATGGAAAACAAAATTCTGCTGG  
GAGTAAATGGAGGCTGTGCCTGCTTATCATTGGTAGCCATCTCACCTGGGTCCAAAATCGACAGCC  
ACACTCGGGGCTCTTACAATCAGGGGTCAAGCTGCTATGTACCTACCTCACCTTCTCAGCTCTGTCC  
AGCAAACCTGCAGAAGTAGTTCTAGATGAACATGGGAAAAATGTTACAATCTGTGTGCCTGACTTTGGTC  
AAGACCTGTACAGAGATGAAAACCTGGTACTATACTGGGACCAGCCTCTTAATCGGATGTATCTTGTA  
TTCATGTTTGACATCAACAACAAGATCGAGTTCTGACGCTCTGCAGGGGCGATACGCAGCTCCTGAATTG  
GAGATAGCTCGCTGTTGTTTTGCTTCAGTCTGGTGGAGAGGACTGAAGAGCAGCAGCCGGGAAGG  
AGGGACCAGGGTCATTTATGACGAGAAGAAAGGCACCGTCTACATCTACTCCTACTTCCACTTCGTGTT  
CTTCTAGCTTCCCTGTATGTGATGATGACCGTACCAACTGGTTCAAAAGTGCCTTTCACCTCTGCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC230051 representing NM\_001174071  
Red=Cloning site Green=Tags(s)

MSAQCACGQLACCCGSAGCSLCCDCCPRIQSLSTRFMYALYFILVVVLCIMMSTTVAHKMKEHIPFFE  
 DMCKGIKAGDTCEKLVGYSAVYRVCFGMACFFFIFCLLTLKINNSKSCRAHIHNGFWFFKLLLLGAMCSG  
 AFFIPDQDTFLNAWRYVAVGGFLFIGIQLLLLVEFAHKWKNWTAGTASNKLWYASLALVTLIMYSIAT  
 GGLVLMVAVFYTQKDSMCENKILLGVNGLCLLISLVAISPWVQNRQPHSGLLQSGVISCYVTYLTFALS  
 SKPAEVVLDHGNVTICVPDFGQDLYRDENLVTLGTSLLLIGCILYSCLTSTTRSSDALQGRYAAPEL  
 E.IARCCFCFSPGGEDTEEQPGKEGPRVIYDEKKGTVYIYSYHFVFFLASLYVMMVTNWFKSAFHLLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8058\\_e11.zip](https://cdn.origene.com/chromatograms/mk8058_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



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

**ACCN:** NM\_001174071

**ORF Size:** 1260 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\\_001174071.3](#)

**RefSeq ORF:** 1263 bp

**Locus ID:** 256987

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

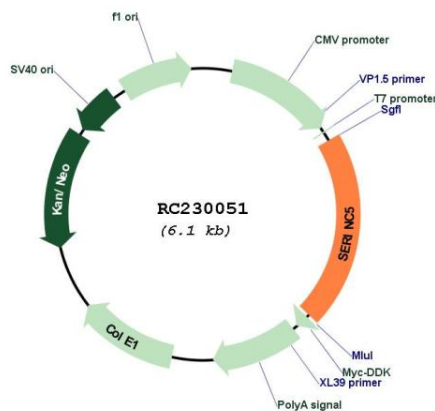
**Cytogenetics:** 5q14.1

**Protein Families:** Transmembrane

**MW:** 47.1 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 RC230051