

Product datasheet for **RG230125**

SERINC5 (NM_001174072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERINC5 (NM_001174072) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERINC5
Synonyms:	C5orf12; TPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230125 representing NM_001174072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGCTCAGTGTGCGGGCCAGCTGGCCTGCTGCTGTGGTCTGCAGGCTGCTCTCTGCTGTG
 ATTGCTGCCCCAGGATTCGGCAGTCCCTCAGCACCCGCTTCATGTACGCCCTCTACTTCATTCTGGTCGT
 CGTCTCTGCTGCATCATGATGTCAACAACCGTGGCTCACAAGATGAAAGAGCACATTCTTTTTTTGAA
 GATATGTGTAAAGGCATTAAGCTGGTACACCTGTGAGAAGCTGGTGGGATATTCTGCCGTGTATAGAG
 TCTGTTTTGGAATGGCTTGTCTTCTTTATCTTCTGCTACTGACCTTGAAAATCAACAACAGCAAAG
 TTGTAGAGCTCATATTCACAATGGCTTTTGGTTCTTAACTTCTGCTGTTGGGGCCATGTGCTCAGGA
 GCTTTCTTATTCCAGATCAGGACACCTTCTGAACGCCTGGCGTATGTGGAGCCGTCGGAGGCTTCC
 TCTTCATTGGCATCCAGCTCCTCTGCTCGTGGAGTTGCACATAAGTGAACAAGAAGTGGACAGCAGG
 CACAGCCAGTAACAAGCTGTGGTACGCCCTCCCTGGCCCTGGTACGCTCATCATGTATTCCATTGCCACT
 GGAGGCTTGGTTTTGATGGCAGTGTATACACAGAAAGACAGCTGCATGGAAAACAAAATTCTGCTGG
 GAGTAAATGGAGGCTGTGCCTGCTTATATCATTGGTAGCCATCTCACCTGGGTCCAAAATCGACAGCC
 ACACTCGGGGCTTTACAATCAGGGGTCAAGCTGCTATGTCACCTACCTCACCTTCTCAGCTCTGTCC
 AGCAAACCTGCAGAAGTAGTTCTAGATGAACATGGGAAAAATGTTACAATCTGTGTGCCTGACTTTGGTC
 AAGACCTGTACAGAGATGAAAACCTGGTACTATACTGGGGACCAGCCTTAAATCGGATGTATCTTGTA
 TTCATGTTTGACATCAACAACAAGATCGAGTCTGACGCTCTGCAGGGCGATACGCAGCTCCTGAATTG
 GAGATAGCTCGCTGTTGTTTTGCTTCACTCCTGGTGGAGAGGACACTGAAGAGCAGCAGCCGGGAAGG
 AGGGACCACGGGTCATTTATGACGAGAAGAAAGCACCCTACATCTACTCTACTCTCCTACTTCCACTTCTGTT
 CTCTAGCTTCCCTGTATGTGATGATGACCGTCACCAACTGGTTCAACTACGAAAGTGCCAACATCGAG
 AGCTTCTCAGCGGGAGCTGGTCCATCTTCTGGGTCAAGATGGCCTCCTGCTGGATATGCGTCTGTTGT
 ACCTGTGTACGCTGGTCCTCCCTCTGCTGCCCCACCGGGAGTTCTCTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230125 representing NM_001174072
 Red=Cloning site Green=Tags(s)

MSAQQCAGQLACCCGSAGCSLCCDCCPRIRQSLSTRFMYALYFILVVVLCIMMSTTVAHKMKHEHIPFFE
 DMCKGIKAGDTCEKLVGYSAYVRVCFGMACFFIFCLLTLKINNSKSCRAHIHNGFWFFKLLLLGAMCSG
 AFFIPDQDTFLNAWRYVAVGGFLFIGIQLLLLVEFAHKWNKNWTAGTASNKLWYASLALVTLIMYSIAT
 GGLVLMVAFYTTQKDSMKNKILLGVNGLCLLISLVAISPWWQNRQPHSGLLQSGVISCYVYTLTFALS
 SKPAEVVLDHEGKNVTICVPDFGQDLYRDENLVTILGTSLLIGCILYSCLTSTTRSSDALQGRYAAPEL
 EIAARCCFCFSPGGEDTEEQQPGKEGPRVIYDEKGTVYIYSYFHFVFFLASLYVMMVTNWFNYESANIE
 SFFSGSWSIFWVKMASCWICVLLYLCTLVAPLCCPTREFSV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001174072

ORF Size: 1383 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

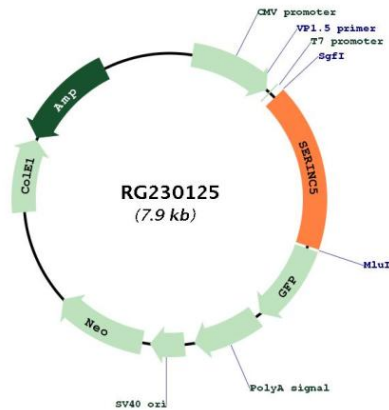
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001174072.3](#)

RefSeq Size:	6479 bp
RefSeq ORF:	1386 bp
Locus ID:	256987
UniProt ID:	<u>Q86VE9</u>
Cytogenetics:	5q14.1
Protein Families:	Transmembrane
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 RG230125