

Product datasheet for **SC313396**

SERINC5 (NM_178276) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERINC5 (NM_178276) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERINC5
Synonyms:	C5orf12; TPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313396 representing NM_178276. Blue=Insert sequence Red=Cloning site Green=Tag(s)

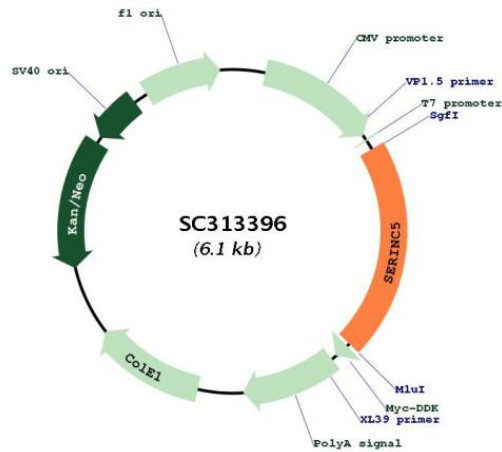
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GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTCAGCTCAGTGTGCGGGCCAGCTGGCCTGCTGTGGGTCTGCAGGCTGCTCTCTGCTGT
GATTGCTGCCCCAGGATTCGGCAGTCCCTCAGCACCCGCTTCATGTACGCCCTCTACTTCATTCTGGTC
GTCGTCCTCTGCTGCATCATGATGTCAACAACCGTGGCTCACAAGATGAAAGAGCACATTCCTTTTTT
GAAGATATGTGTAAGGCATTAAAGCTGGTGACACCTGTGAGAAGCTGGTGGGATATTCTGCCGTGAT
AGAGTCTGTTTTGAATGGCTTGTCTCTTTATCTTCTGTCTACTGACCTTAAAAATCAACAACAGC
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GTAAGAAGTGCCTTTCACCTCCTGCCA TGA
ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_178276

Insert Size: 1272 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_178276.6](#)

RefSeq Size: 1937 bp

RefSeq ORF: 1272 bp

Locus ID: 256987

UniProt ID: [Q86VE9](#)

Cytogenetics: 5q14.1

Protein Families: Transmembrane

MW: 47 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]

Transcript Variant: This variant (2) uses an alternate splice pattern in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.