

## Product datasheet for **MC204638**

### Serinc5 (NM\_172588) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serinc5 (NM_172588) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Serinc5
Synonyms:	A130038L21Rik; AIGP3; C86123; TPO1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC049189  
 CTGGGCTCGGGGATAGGAAGCAAGACGAGCTTCTTCAGTCGCGCGCTCGCGGACCAAGCCGAGAGGGCCC  
 GAGTGACGGGCCAGCGGCAGCGTCCCGAGGCGAGGTCGTCGGCCGCGGTGATGTCTGCCCGGTGCTG  
 TGCTGGCCAGTTGGCCTGCTGTTGCGGATCTGCTGGCTGCTCCCTCTGCTGTGGCTGCTGCCCTAAGTTC  
 CGACAGTCTCGGACCACCCGCTTCATGTATTTATTCTACTTCATCCTGGTCATCGCCCTTGGCTGTGTA  
 TGATGACACCCTCTGTGATGAAGCAGGTGAAGGACCACATCCCTTTTTTGAAGAGTTCTGTAAAAAGAC  
 TCAAGCCCGTGGTGACGCTGTGAGAACCCTGGTAGGGTATTCTGCGGTGTACAGAGTCTGCTTTGGAAAT  
 GCTTGTTCCTTTGCTCTGTTTTGCCTGCTGACCTTAAAAGTCAACAACAGCAAAAGTTGCCGGCCTACA  
 TTCACAACGGCTTTTGGTTCTTTAAATTGCTGCTGTTAGGGGCCATGTGCTCAGGAGCGTCTTTCATTCC  
 GGATCAGGAGACCTTTCTGAAAGTCTGGCGCTATGTGGGAGCTGGGGCAGCTTCTCTTTCATTTGTATC  
 CAGCTCCTCTGATTGTGCAGTTTGACATAAGTGAACAAGAAGTGGACTGCAGGCACCGTCCGTAATA  
 AGCTGTGGTACGCCTCCCTGTCCCTGGTACACTCATCATGATTCCGTTGCTGTTGGAGGCTTGGCTTT  
 GATGGCAGTGTTTACACACAGTGGGACGACTGCATGGACAACAAGATTCTCTGGGAGTGCACGGTGCC  
 CTATGCGTGCTAATCTCTCTGGTAGCCATCTCACCTGCGTCCAGAATCGACAGCCACACTCTGGGCTGC  
 TGCAGTACAGGCTCATAAGCTGTTATGTCACCTACCTCACCTTCTCAGCACTGACCAGCAAGCCTGAAAA  
 AAAAGTCTGGATGAACATGGGAAGAATGTTACCATATGTGCGCCTGACTTTGGTCAAGACTGCATAGA  
 GATGAAAACATGGTGACTTGGCTGGGCACCCCTTCTTAATTGTGTGCATCTCATATTCATGTTTGACAT  
 CGACAACAAGGTCGAGCTCGGATGCTCTGCAGAGTCGATACGGAGCGCCAGAGCTGGAAGTGGCCCGGTG  
 CTGTTTCTGCTTTGGTCCAGATGGAGAAGACACTGAAGAGCAGCAGAACGTCAAGAAGGGACCCAGGGTG  
 ATTTATGATGAGAAGAAAGGCACCGTGTACAGTACTCTATTTCCACTTCGTCTTCTTCTGGCTTCCC  
 TCTACGTGATGACTCTGACCAGCTGGTCCACTATGAAAATGCCACCATTAGACCTTCTTCTCAGG  
 CTGGTCCGTCTTCTGGTCAAGATGGCTCCCTGCTGGATGTGTGCTGCTGTACCTGCAGACCTTGGTG  
 GCCCTCTCTGCTGCCCTCCAGCAGTCTCTGTGTGAGGATGTCCAGGTGCCCTGAGTGCAGCAGCTG  
 CTGTGCCACTGTGGAGGGCTGCCCTTTGAACGTGTGCACAGGGGTTTAAAGCAGCAACTGGTGCCTGT  
 GAAAAGCTGACATCCCCTGGCTAGCTTAAAGTAGGTCTGACAAAAGCTTTCAGGAAACAAAATAATCTCT  
 GATTAGCTTCTAGTTGTAATAATCCAAAAGGAACTACCAGTTAGATCGACAGGAATTGAAATCTTTAGCC  
 AAGCTGGTAGGTGCAATTATCTCTTTATGCCTTACCCAAGAATTAGCTGAAGTTTTGTTGCTGTTCTTCC  
 TGGACGTGTTTTAACAGGCCAGAGCTTGGGGCACAGCGTCTGTACAGGGATGAAAATGCTTGTATG  
 GCCTGTCACTCTCATCCTTGGCATAAAGAAGCAACAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_172588

**Insert Size:** 1386 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](mailto: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](#)

**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:** [BC049189](#), [AAH49189](#)

**RefSeq Size:** 1965 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 218442

**UniProt ID:** [Q8BHJ6](#)

**Cytogenetics:** 13 C3

**Gene Summary:** Restriction factor required to restrict infectivity of gammaretroviruses: acts by inhibiting early step of viral infection and impairing the ability of the viral particle to translocate its content to the cytoplasm (By similarity). 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]