

Product datasheet for **MG207354**

Serinc5 (NM_172588) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serinc5 (NM_172588) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serinc5
Synonyms:	A130038L21Rik; AIGP3; C86123; TPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207354 representing NM_172588
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGCCCGGTGCTGTGCTGGCCAGTTGGCCTGCTGTTGCGGATCTGCTGGCTGCTCCCTCTGCTGTG
 GCTGCTGCCCTAAGTTCGACAGTCTCGGACCACCCGCTTCATGTATTTATTCTACTTCATCCTGGTCAT
 CGCCCTTTGCTGTGTGATGATGACACCCTCTGTGATGAAGCAGGTGAAGGACCACATTCCCTTTTTTGA
 GAGTTCTGTA AAAAGACTCAAGCCGGTGGTGACGCTGTGAGAACCTGGTAGGGTATTCTGCGGTGTACA
 GAGTCTGCTTTGGAATGGCTTGTCTTTGCTCTGTTTTGCTGCTGACCTTAAAAGTCAACAACAGCAA
 AAGTTGCCGGCTACATTCACAACGGCTTTGGTTCTTTAAATTGCTGCTGTTAGGGGCCATGTGCTCA
 GGAGCGTCTTCATTCCGGATCAGGAGACCTTTCTGAAAGTCTGGCGCTATGTGGGAGCTGGGGCAGCT
 TCCTCTTCATTTGTATCCAGCTCCTCCTGATTGTGCAGTTGCACATAAGTGAACAAGAAGTGGACTGC
 AGGCACCGTCCGTAATAAGCTGTGGTACGCTCCCTGTCCCTGGTGACACTCATCATGTATTCCGTTGCT
 GTTGGAGGCTTGCTTTGATGGCAGTGTTTACACACAGTGGGACGACTGCATGGACAACAAGATTCTCC
 TGGGAGTGACCGGTGGCCTATGCGTGCTAATCTCTCTGGTAGCCATCTCACCCCTGCGTCCAGAATCGACA
 GCCACACTCTGGGCTGCTGCAGTCAGGGCTCATAAGCTGTTATGTACCTACCTCACCTTCTCAGCACTG
 ACCAGCAAGCCTGAAAAAAGTCTGGATGAACATGGGAAGAATGTTACCATAATGTGCGCCTGACTTTG
 GTCAAGACCTGCATAGAGATGAAAAATGGTGACTTGGCTGGGCACCCCTTCTTCTAATTGTGTGCATCTC
 ATATTCATGTTTGACATCGACAACAAGTTCGAGCTCGGATGCTCTGCAGAGTCGATACGGAGCGCCAGAG
 CTGGAAGTGGCCCGGTGCTGTTTCTGCTTTGGTCCAGATGGAGAAGACTGAAGAGCAGCAGAACGTCA
 AGAAGGGACCCAGGGTGATTTATGATGAGAAGAAAGGCACCGTGTACAGCTACTCCTATTTCCACTTCGT
 CTCTCTGCTGGCTCCCTCTACGTGATGATGACTCTGACCAGCTGGTTCCACTATGAAAAATGCCACCATT
 AAGACCTTCTTCTCAGGCTGGTCCGTCTCTGGGTCAAGATGGCCTCCTGCTGGATGTGTGTGCTGCTGT
 ACCTGCAGACCTTGGTGGCCCTCTCTGCTGTCCCTCCAGGCAGTTCTCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207354 representing NM_172588
 Red=Cloning site Green=Tags(s)

MSARCCAGQLACCCGSAGCSLCCGCCPKFRQSRTTRFMYLFYFILVIALCCVMMTPSVMKQVKDHIPFFE
 EFCKKTQAGGDACENLVGYSAYRVCFGMACFFALFCLLTLKVNNSKSCRAYIHNGFWFFKLLLLGAMCS
 GAFFIPDQETFLKVWRYVAGGSFLFICIQLLLIQVFAHKWNKNWTAGTVRNKLWYASLSLVTIMYSVA
 VGGLALMAVFYTQWDDCMDNKILLGVHGGLCVLI SLVAISPCVQNRQPHSGLLQSLISCVVYTLTFSAL
 TSKPEKKVLDEHGKNVTICAPDFGQDLHRDENMVTWLGTLILLIVCISYSCLTSTTRSSDALQSRGAP
 LEVARCCFCFGPDGEDTEEQNVKKGPRVIYDEKKGTVYSYFHFVFFLASLYVMMTLT SWFH YENATI
 KTTFFSGWSVFWKMASCWMCVLLYLQTLVAPLCCPSRQFSV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172588

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).

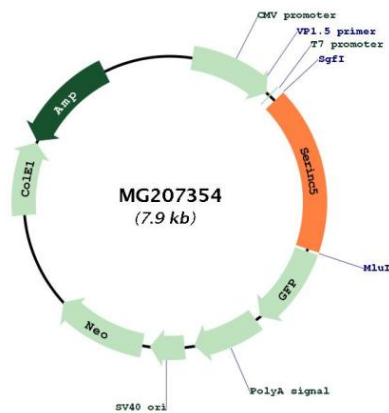
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_172588.2](#), [NP_766176.1](#)

RefSeq Size: 5393 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]

Product images:



Circular map for MG207354