

## Product datasheet for **RG234333**

### **SERINC4 (NM\_001258031) Human Tagged ORF Clone**

#### **Product data:**

|                                  |                         |
|----------------------------------|-------------------------|
| <b>Product Type:</b>             | Expression Plasmids     |
| <b>Tag:</b>                      | TurboGFP                |
| <b>Symbol:</b>                   | SERINC4                 |
| <b>Mammalian Cell Selection:</b> | Neomycin                |
| <b>Vector:</b>                   | pCMV6-AC-GFP (PS100010) |
| <b>E. coli Selection:</b>        | Ampicillin (100 ug/mL)  |



**ORF Nucleotide Sequence:** >RG234333 representing NM\_001258031  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGTGGGTGCCAAGGCCGGCCCCAGCCCCGGCACCTCCCTGGGCCTGGCACAGCAGCACAGCGGAGGCA  
 GCAGTGTCTAGTAAAAAGTCCCTTCTGTCAAGGTGTGTGTGTGGGCCTGCTCCTTGTGCCAGCTGCTG  
 CCACTCTAGGTGGCCCTCTCTACCGCATCCACTTGCAGCCGCTGTTCTACATCCTCCTCCATGTGGGG  
 GCCTCAGCAATCTGCTGCCTCTGTGTCAAGGACAGTAGTGAAAGGGTGTGGGGCAAGACACACAGGA  
 TCCAGATGCCCTCGGGTGTGTGCCACCTGTTTGGCCTCTCTGACTGTCCAGTGTCTAGTGGCTCTGG  
 GGCTGTGTACCGAGTATGTGCAGGAACCGCCACCTTCCACCTGCTGCAGGCTGTGTTGCTGGTCCACCTC  
 CACTCCCCACCAGCCGCGGGCACAGCTGCATAATAGCTTCTGGCTCCTCAAGCTGCTGTTCTGTAG  
 GTCTCTGTGCTATTGCCTTCTGCATTCCTGATGAGCATCTCTCCAGCATGGCATTACATTGGCATCTG  
 TGGAGGCTTTGCATTCATCTACTGCAGTTGGTGTCTATTACAGCTTTTGGCCATTCTGGAACAAGAAC  
 TGGCAGACAGGTGCAGCTCAAGACTGTAGCTGGTTCCTGGCTGTCTGCTGGCCACCCTAGGATTCTACA  
 GCATGGCAGGTGTGGGAGCTGTGCTCCTATTCCACTATTATACACACCCAGCTGGCTGCCTGCTTAACAA  
 GATGCTCCTCAGTGTGCACCTTTGCTTCTGTGGCCTCATCTCTTCTCTCCATCGCTCCTGTGCATCCGC  
 CTCAAGCAACCCGCTCTGGCCTCTACAAGCTTCTGTCATCAGCTGTATATCATGTATCTGACTTTCT  
 CTGCACTGTCCAGCGTCTCTCAGAGAGAGTAATCCTTCAAGGACAGAATCACACCCTGTGGCTGCCTGG  
 CCTGAGTAAATGGAACCCCAAACACCAGATATCTCTAGCAATGCTGAGTGTAGCATCATGTATGCT  
 TGTGTGCTTTTGTGCAATGAGGCTCTACCTGGCTGAGGTATTTGAGCCCTGTGGATTGTCAAGG  
 TTTACAGCTATGAGTTTCAAGCCCTCACTGTGTTTCTGCTGCCCTGAAACAGTGGAGGCAGACAAAGG  
 GCAAAGGGGTGGGGCTGCGAGGCCAGCTGACCAAGAAACCCCTCCAGCTCCTCCAGTCCAAGTCCAGCAT  
 CTTTCTACAACCTATTCTGCCTTCCACTTCGTCTTCTCTTGCCTCACTCTATGTCATGTTTACCTTA  
 CCAACTGGTTCAGCTATGAGGGAGCAGAACTGAAAAGACCTTCATCAAGGGTAGCTGGGCCACCTTCTG  
 GGTCAAGGTTGCCCTCATGCTGGGCTGCGTACTCCTCTATCTGGGGCTGTACTGGCACCCTCTGTTGG  
 CCCCCCACCAGAAACCCAGCCCTTATCTTGAGGCGCCGCCGCCACCGCATCATATCCCAGATAACA  
 AATATCTCCAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234333 representing NM\_001258031  
 Red=Cloning site Green=Tags(s)

MVGAKAGSPGTSGLAQHSGGSSVLVKSPFCQVCCGPAPCASCCHSRWPSLTASTCSRLFYILLHVG  
 ASAIICLLLSRTVVERVWGKTHRIQMPSGLCAHLFGLSDCPVLSGSGAVYRVCAGTATFHLLQAVLLVHL  
 HSPTSRAQLHNSFWLLKLLFLLGLCAIAFCIPDEHLFPAWHYIGICGGFAFILLQLVLITAFASWNKN  
 WQTGAQDCSWFLAVLLATLGFYSMAGVGAVLLFHYTHPAGCLLNKMLLSHLFCGLISFLSIAPCIR  
 LKQPRSGLLQASVISCYIMYLTFSALSSRPPERVILQGQNHLCPLGLSKMEPQTPDISLAMSASIMYA  
 CVLFACNEASYLAIEVFGPLWIVKVSYEFQKPSLCFCCPETVEADKGQRGGAARPADQETPPAPPVQVQH  
 LSYNYSAFHFVFFLASLYVMVTLTNWFSYEGAELEKTFIKGSWATFWVKVASCWACVLLYLGLLLAPLCW  
 PPTQKPQPLILRRRRHRIISPDNKYPPV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_001258031

**ORF Size:** 1554 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.

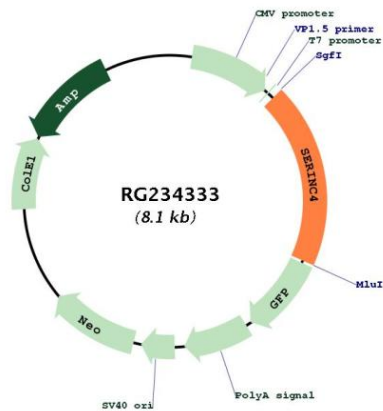
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001258031.1](#), [NP\\_001244960.1](#)

**RefSeq Size:** 2494 bp

|                   |                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq ORF:       | 1557 bp                                                                                                                                                                                |
| Locus ID:         | 619189                                                                                                                                                                                 |
| UniProt ID:       | <a href="#">A6NH21</a>                                                                                                                                                                 |
| Cytogenetics:     | 15q15.3                                                                                                                                                                                |
| Protein Families: | Transmembrane                                                                                                                                                                          |
| Gene Summary:     | Incorporates a polar amino acid serine into membranes and facilitates the synthesis of two serine-derived lipids, phosphatidylserine and sphingolipids.[UniProtKB/Swiss-Prot Function] |

### Product images:



Circular map for RG234333