

Product datasheet for **RG201658**

SRP54 (NM_003136) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRP54 (NM_003136) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SRP54
Synonyms:	SCN8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201658 representing NM_003136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCTAGCAGACCTTGAAGAAAAAATACATCAGCATTACGCTCATTGAGCAATGCCACCATTATCA
 ATGAAGAGGTATTGAATGCTATGCTAAAAGAAGCTGTACCGCTTTGTTGGAAGCAGATGTTAATATTAA
 ACTAGTGAAGCAACTAAGAGAAAATGTTAAGTCTGCTATTGATCTTGAAGAGATGGCATCTGGTCTTAAC
 AAAAGAAAAATGATTCAGCATGCTGATTTAAAGAACTTGTGAAGCTTGTAGACCCTGGAGTTAAGGCAT
 GGACACCCACTAAAGGAAAAAAAATGTGATTATGTTTGTGGATTGCAAGGGAGTGGTAAAAACAACAAC
 ATGTTCAAAGCTAGCATATTATTACCAGAGGAAAGGTTGGAAGACCTGTTAATATGTGCAGACACATTC
 AGAGCAGGGGCTTTTGACCACTAAAACAGAATGCTACCAAAGCAAGAATTCATTTTATGGAAGCTATA
 CAGAAATGGATCCTGTCATCATTGCTTCTGAAGGAGTAGAGAAATTTAAAAATGAAAATTTTGAATTTAT
 TATTGTTGATACAAGTGGCCGCCACAAACAAGAAGACTCTTTGTTGAAGAAATGCTTCAAGTTGCTAAT
 GCTATACAACCTGATAACATTGTTTATGTGATGGATGCCTCCATTGGGCAGGCTTGTGAAGCCCAGGCTA
 AGGCTTTTAAAGATAAAGTAGATGTAGCCTCAGTAATAGTGACAAAACCTTGATGGCCATGCAAAAAGGAGG
 TGGTGCCTCAGTGCAGTCGCTGCCACAAAAGTCCGATTATTTTTCATTGGTACAGGGGAACATATAGAT
 GACTTTGAACCTTTCAAAACACAGCCTTTTATTAGCAAACCTTCTGGTATGGGCGACATTGAAGGACTGA
 TAGATAAAGTCAACGAGTTGAAGTTGGATGACAATGAAGCACTTATAGAGAAGTTGAAACATGGTCAGTT
 TACGTTGCGAGACATGTATGAGCAATTTCAAAAATCATGAAAATGGGCCCTTCAGTCAGATCTTGGGG
 ATGATCCCTGGTTTTGGGACAGATTTTATGAGCAAAGGAAATGAACAGGAGTCAATGGCAAGGCTAAAGA
 AATTAATGACAATAATGGATAGTGAATGATCAAGAAGTCAAGGAGTACGGATGGTGGCAAGGCTTTTAG
 TAAACAACAGGAAGAATCCAAAGAGTAGCAAGGATCGGGTGTATCAACAAGAGATGTTCAAGAACTT
 TTGACACAATATACCAAGTTTGCACAGATGGTAAAAAAGATGGGAGGTATCAAAGGACTTTTCAAAGGTG
 GCGACATGTCTAAGAATGTGAGCCAGTCACAGATGGCAAATGAACCAACAAATGGCCAAAATGATGGA
 TCCTAGGGTTCTTCATCACATGGGTGGTATGGCAGGACTTCAGTCAATGATGAGGCAGTTTCAACAGGGT
 GCTGCTGGCAACATGAAAGGCATGATGGGATCAATAATATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201658 representing NM_003136
 Red=Cloning site Green=Tags(s)

MVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLN
 KRKMIQHAVFKELVKLVDPGVKAWPTKKGKQNVIMFVGLQSGKTTTCSKLAYYYQRKGWTKLICADTF
 RAGAFDQLKQNA TKARIPFYGSYTEM DPVIIASEGVKFKNENFEI IIVDTSGRHKQEDSLFEMLQVAN
 AIQPDNIYVMDASIGQACEAQAKAFKDKVDVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHID
 DFEPFKTQPFISKLLGMGDI EGLIDKVNELKLDNEALIEK LKHGQFTLRDMYEQFNIMKMGPFSSQILG
 MIPPGFTDFMSKGNEQESMARLKKLMTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQEL
 LTQYTKFAQMVKMGGIKGLFKGGDMSKNVSQSQMAKLNQQMAKMMDPVRLHMGGMAGLQSMRQFQQG
 AAGNMKGMGFNNM

TRTRPLE – GFP Tag – V

Restriction Sites:

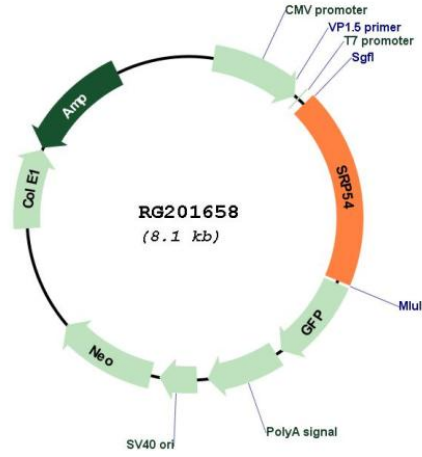
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_003136
 ORF Size: 1512 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_003136.2, NP_003127.1</p>
RefSeq Size:	<p>2164 bp</p>
RefSeq ORF:	<p>1515 bp</p>
Locus ID:	<p>6729</p>
UniProt ID:	<p>P61011</p>
Cytogenetics:	<p>14q13.2</p>
Domains:	<p>SRP54, AAA, SRP_SPB</p>
Protein Pathways:	<p>Protein export</p>
Gene Summary:	<p>Binds to the signal sequence of presecretory protein when they emerge from the ribosomes and transfers them to TRAM (translocating chain-associating membrane protein). [UniProtKB/Swiss-Prot Function]</p>