

Product datasheet for **SC118182**

SRP54 (NM_003136) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SRP54 (NM_003136) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SRP54 |
| Synonyms: | SCN8 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC118182 sequence for NM_003136 edited (data generated by NextGen Sequencing)

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ATGGTTCTAGCAGACCTTGAAGAAAAAATACATCAGCATTACGCTCGTTGAGCAATGCC
ACCATTATCAATGAAGAGGTATTGAATGCTATGCTAAAAGAACTGTACCGCTTTGTTG
GAAGCAGATGTTAATATTAAGTGAAGCACTAAGAGAAAAATGTTAAGTCTGCTATT
GATCTTGAAGAGATGGCATCTGGTCTTAACAAAAGAAAAATGATTCAGCATGCTGTATTT
AAAGAACTTGTGAAGCTGTAGACCTGGAGTTAAGGCATGGACACCCACTAAAGGAAAA
CAAAATGTGATTATGTTTGGATTGCAAGGGAGTGGTAAAACAACAACATGTTCAAAG
CTAGCATATTATTACCAGAGAAAAGTTGGAAGACCTGTTTAATATGTGCAGACACATTC
AGAGCAGGGGCTTTTACCAACTAAAACAGAATGCTACCAAAGCAAGAATTCCATTTTAT
GGAAGCTATACAGAAATGGATCCTGTCATCATTGCTTCTGAAGGAGTAGAGAAATTTAA
AATGAAAATTTTAAAATTTATTGTTGATACAAGTGGCCGCCACAAACAAGAAGACTCT
TTGTTTGAAGAAATGCTTCAAGTTGCTAATGCTATACAACCTGATAACATTGTTTATG
ATGGATGCCTCCATTGGCAGGCTTGTGAAGCCAGGCTAAGGCTTTTAAAGATAAAGTA
GATGTAGCCTCAGTAATAGTGACAAAACCTGATGGCCATGCAAAAGGAGGTGGTGCAC
AGTGACAGTCGCTGCCACAAAAGTCCGATTATTTTCATTGGTACAGGGGAACATATAG
GACTTTGAACCTTTCAAACACAGCCTTTTATTAGCAAACCTTCTTGGTATGGGCGAC
GAAGGACTGATAGATAAAGTCAACGAGTTGAAGTTGGATGACAATGAAGCACTTATAG
AAGTTGAAACATGGTCAGTTTACGTTGCGAGACATGTATGAGCAATTTCAAATATCAT
AAAATGGGCCCCCTTCACTCAGATCTTGGGGATGATCCCTGGTTTTGGGACAGATTTT
AGCAAAGGAAATGAACAGGAGTCAATGGCAAGGCTAAAGAAATTAATGACAATAATGG
AGTATGAATGATCAAGAAGTACAGTACGGATGGTCCAAAGTTTTAGTAAACAACCA
GGAAGAAATCCAAAGAGTAGCAAGAGGATCGGGTGTATCAACAAGAGATGTTCAAGA
TTGACACAATATACCAAGTTTGCACAGATGGTAAAAAAGATGGGAGGTATCAAAGG
TTCAAAGGTGGCGACATGCTAAGAATGTGAGCCAGTCACAGATGGCAAATTAACCAA
CAAATGGCCAAAATGATGGATCCTAGGGTTCTTCATCACATGGTGGTATGGCAGGACT
CAGTCAATGATGAGGCAGTTTCAACAGGGTGTCTGGCAACATGAAAGGCATGATGGGA
TTCAATAATATGTAA
    
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Clone variation with respect to NM_003136.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003136 unedited
TGTATACGACTCTATAGGCGGCCGNAATTCGCACGAGGGCTCCGCCTAGTCACTTTT
CTTAAGTGGCTCGTCGAGGCCTGACTTCTTCCCGAATCACGTCCTTAGACAGCCTCCTA
TTTTACCACTAACTTTACTCCTGCAGTTATTCAGCGGTAGGAACTGAAACAAAAACCA
GTGTAAGCAAGTAAACATCTAACTGTTTCAGGAGCCCGTAGAAGGAACGCGGGGTGT
GCCCGGAAGCGGAAGTAGATTCTCTATAGAAAGGCTGGACTACGCGGAGTGGTGACGT
TTCCTCATTGGGCGGAAGGTTCCGCTGGCACTCCGTTGGTCTTCCAGCTGGTGGGAGTTGA
CGACGTGGTGTGGGCGTTGGGACCCTACTTTATCTAGTTCGGGAAGTTGGGTTGTGGG
TCATACCTGTCTGTCTGCTCCCAGCTTTCTTGGGTTTCTTCCGACGGCGTGGGCCTCGC
TAAGGAATTTCCGGCCCCCTCAGGGCCACGGCTTTAGCGGTGTCTTTTGGAGTTCTTCGT
AAGTACATCTTAAAGCTGTCAAGATGGTCTAGCAGACCTTGAAGAAAAATAACATCAG
CATTCCGCTCGTTGAGCAATGCCACCATTAATCAATGAAGAGGTATTGAATGCTATGCTAA
AAGAAGTCTGTACCGCTTTGTTGGAAGCAGATGTTAATATTAAGTGAAGCAACTAA
AGAAATGTTAAGTCTGCTATTGATCTTGAAGAGATGCATCTGGTCTTAACAAAGAAAATG
ATTCAGCATGCTGTATTAAGAAGCTTGTGAAGCTGAACCTGNANTNAGGCATGGACAC
CACTAAAGAAACANATGTGATATATGTTGTTGGATGCAAGGGAGTGGTAAACAANCACTG
NTCAAA
    
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| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_003136 unedited NCCCCACGCCCTCCNCCCCCCCCCCCCNNCCTTTCNCTTGTTTTGCNACGCGCGCCGCC TCCCACGATCGAGGTTCTTTTCTCTTTTTTCTTTTTTATTCTACAGCACTTTAATTGAA ACATTATTTAACTACTGACCAGGACTGTTTACAAATGCAATGCTTGGCCTTCGAGATAAT TAAAAACCTTTCAGTACTAAAATTTTACATCATGATTTAACTTAAGTGTACGATGGTGA AAACAGAACACAATCTAAAGCACACATAATGATTTCCACACAAACCATGTATTTCTCC CTTATATTAAGGGAGGAACCGATGAAGGAAAAAGCAAACGGAGGGGAAAAGCGGGCGAG ATAAAAAGGAAAGAGTGCATGATAAGCAACAAAAATACACTTTCGCCCAATTTCGCACAA AGAATGGAAACGCTGAGGTCTCCACCCAAATTAGGTATCCAACCTGAGTCAGTTTATATTA AGGCATTTCTTTACATATTATTGAAATCCCATCATGCCTTTCATGTTGCCAGCAGAACC CTGCTGAAACTGCCTCACCATTGACTGAAGTCTTGCCCTACCACCCCATGTGATGAAAAA ACCCTAGGATTCATTTCTTTGGCCATTCGTTGGTTCACATTTGCATCTGTGACTGCC TCACATTTTACACCATGTTTCGCACCTTTTGAAGCCCTTTTGATACCTCCCATTTTTTT TTACAATCTGCGCAAACCTGGTAACACTGCGACAAAAGCTTTTGAACAACCTCTGCTGA AACACCCGATCCTTTCGCTCCCCTTTGGATCCTCNCCGGCGGTTCACTCAATCTTTTGG CACTTCCCGTCCGGCCATACCTTTGAACCTCCTAACACGCCATTTTCGTCTTAATTTTT TTAACCTCTGCCTTGAATCCCTGGCATATTCTTTGGCTCAATACACCTTGCCCAAAACA CCGCGTATATCCCAAT</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003136 |
| Insert Size: | 2500 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> |
| 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: | <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: | NM_003136.2 , NP_003127.1 |

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| RefSeq Size: | 2164 bp |
| RefSeq ORF: | 1515 bp |
| Locus ID: | 6729 |
| UniProt ID: | P61011 |
| Cytogenetics: | 14q13.2 |
| Domains: | SRP54, AAA, SRP_SPB |
| Protein Pathways: | Protein export |
| 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> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p> |