

Product datasheet for **SC126965**

SRP68 (NM_014230) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRP68 (NM_014230) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRP68
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014230, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCTGAGAAGCAGGTCCCAGGCGGCGGGCGGGCGGGCGGCGAGTGGCGGGCGGCGTGGCAGTGGCG
GCGGGCGTAGCGGCGGTGGACGTGGTCCCGGAGGGGAAGAAAATAAGAAAAACGAACGCCCTTCGGCCGG
ATCGAAGGCAAAACAAGAATTTGGGGATAGCCTGAGTTTGGAGATTCTTCAGATTATTAAGGAATCCCAG
CAGCAGCATGGTTTACGGCATGGAGATTTTCAGAGGTACAGGGGCTACTGTTCCCGTAGACAAGACGTC
TTCGAAAAACACTCAACTTCAAGATGGGTAAACAGACACAAATTCACAGGGAAGAAAGTACTGAAGAGCT
TCTGACCGATAATAGATACTTGCTTCTGGTTCTGATGGATGCTGAAAGAGCCTGGAGCTACGCCATGCAG
CTGAAACAGGAAGCCAACACTGAACCCCGAAAACGGTTTCACTTGTTATCTCGCCTACGCAAGCCGTGA
AGCATGCAGAGGAATGGAACGCTTGTGTGAGAGCAATCGCGTGGATGCCAAGACCAAATTAGAGGCTCA
GGCTTACACAGCTTACCTCTCAGGAATGCTACGTTTTGAACATCAAGAATGGAAGCTGCCATTGAGGCT
TTTAACAATGCAAACTATCTATGAGAAGCTAGCCAGTCTTTACAGAGGAGCAGGCTGTGCTGTATA
ACCAACGTGTGGAAGAGATTTACCCAAACATCCGCTATTGTGCATATAATATTGGGGACCCAGTCAGCCAT
CAATGAACCTCATGCAGATGAGATTGAGGTCTGGGGGCACTGAGGGTCTCTTGGCTGAAAAATTGGAGGCT
TTGATCACTCAGACTCGAGCCAACAGGCAGCTACCATGAGTGAAGTGGAGTGGAGAGGGAGAACGGTTC
CAGTGAAGATTGACAAAGTGCACATTTCTTATTAGGACTGGCTGATAACGAAGCAGCTATTGTCCAGGC
TGAAAGCGAAGAACTAAGGAGCGCCTGTTGAATCAATGCTCAGCGAGTGTCCGGACGCCATCCAGGTG
GTTCCGGGAGGAGCTCAAGCCAGATCAGAAAACAGAGAGATTATATCCTTGAAGGAGAGCCAGGGAAGGTG
CTAATCTTCAATACTTGCATAGCTACCTGACTTACATCAAGCTATCAACGGCAATCAAGCGTAATGAGAA
CATGGCCAAAGGCTCTGCAGAGGGCTCTGCTGCAGCAGCCAGAGGATGACAGCAAGCGCTCACCCCGG
CCCCAGGACCTGATCCGACTCTATGACATCATCTTACAGAATCTGGTGGAAATTGCTCCAGTTCCTGGTT
TAGAGGAAGACAAGCCTTCCAGAAAGAGATAGGCCTCAAGACTCTGGTGTCAAAGCTTACAGGTGTTT
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AAATATGCAAATGAAGTAAATTCTGATGCTGGCGCCTTCAAGAACAGCCTAAAGGACCTGCCTGATGTGC
AAGAGCTCATCACTCAAGTGCAGTGCAGAGAAGTCTCCCTGCAGGCCGACCCATCCTTGTGCAACGCA
CGCTCATCAAACAGAGACCTCCTCCTCCCAAGTCAAGGACAATAAGCCTCTGGTTGAACGGTTTGTAGACA
TTCTGCCTGGACCCTTCCTTGTCAACGAAGCAAGCAACCTTGTGCACTCCCACCAGGCTTCCAGCCCA
TTCCCTGCAAGCCTTTGTTCTTTGACCTGGCCCTCAACCATGTGGCTTTCCACCCTTGGAGACAAGTT
GGAACAGAAGACCAAGAGTGGCCTCACTGGATACATCAAGGGCATCTTTGGATTAGGAGCTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014230 unedited

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TACGACTCACTATAGGGCGGCCGACATTCGCACGAGGCCTCGTGCCGAATTCGGCAGC
AGGGGCAAGATGGCTGCTGAGAAGCAGGTCCCAGGCGGCGGGCGGGCGGGCGGCGCAGTGGC
GGCGGGGTGGCAGTGGCGGGCGGGTAGCGGGGTGGACGTGGTCCGGAGGGGAAGAA
AATAAAGAAAACGAACGCCCTTCGGCCGGATCGAAGGCAAAACAAGAATTTGGGGATAGC
CTGAGTTTGGAGATTCTTCAGATTATTAAGGAATCCCAGCAGCAGCATGGTTTACGGCAT
GGAGATTTTTCAGAGGTACAGGGGCTACTGTTCCCGTAGACAAGACGCTTTCGAAAAACA
CTCAACTTCAAGATGGGTAAACAGACACAAATTCACAGGGAAGAAAGTACTGAAGAGCTT
CTGACCGATAATAGATACTTGCTTCTGGTTCTGATGGATGCTGAAAGAGCCTGGAGCTAC
GCCATGCAGCTGAAACAGGAAGCCAACACTGAACCCCGAAAACGGTTTCACTTGTTATCTC
GCCTCGCAAAGCCGTGAAGCATGCAGAGGAATTGGAACGCTTGTGTGAGAGCAATCGCGT
GGATGCCAAGACCAAATAGAGGCTCANGCTTTACACAGCTTACCTCTCANGAATGCTAC
GTTNTGGACATCAAAATGGAAAGCTGCATTTGAGGCTTTAAACAATGCAAACTATTATGAG
AGCTAGCCAGTGTCTTACAGAGAGCAAGCTGTGCTGGTACCCACGTGTGAAAGATTTACC
CACATCGCTTTGTGCTATATATGGGGACAAGTCAAGTCTGACTCTGCAAAAAATTTGGT
CTGGGCCTTAAAGGCCCTGCTGAAATTTGAGGTTTTGTCTCAACTGAGCAAAGGGTACTT
ATTAAGGGTGGAGGGGAAAAA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014230 unedited GGCCGCAATTTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATGTTTAAATCACTTTTATTC CTTGCTTTCTTACATTGTTTTGTGACTTCTATTATTGATGTTATAATAGAAGTGAAAAG GGATGACTAAGGAAAAACGGGGGTAACGAAGGGGATTAATAATAATGGCATCTAAAAA TTACACATTGGGAAGTCTGAAAAATAGTGCCTTAACATGTGTATCTGGCATCAGCCTC ACCTAGTTGCCGTAAGTCAGTTACACTTGACCTCACCGGCTTCACGCAACTAGGCTCC CGAGGAGAGAACGGGGACTGGACATGAGGGAGGGCATATAAAAAATGGGCACAGTCTCCG TCATCTTTGCCTTTAATAAGATTTGGTTTCATCATTCTGAGTGAACATATTTCTT CTAAAAATAGAGCTCTCTGCTTGTCTGAAACTTCTTAGCGTTCACTGGGAGGTGAAGGGG AATAAGGCTGACCGTAATTCTGGGGTGACGTTGCCAGTTTCATAGTCATAGATAAACTTC TCAAGGGCTCCTGGATGCTCACAGCAAGGATGAGTTCAATTTCAAATCCATGGTACTGAAG AAGCATGACAAAGCGTTTCAAGGCCCATCTGTGCCTGGTGTGGGACTCTGAACGCATTA CTGACCAAAGGCAATCAATCACAGCTCACAGGGCACCANACAGCANCGGCCCCCTCCCC AGAGTACAGGAGACAGGATGACCCTGCACACATTACCAGAAGACACAGGGTGCTCTCCTG ACCGCTGCTTAAGACGTGTACGACACAAATGTAGGATGCAGGCCNANATTGTAACTTTT GCCCGGGCCATGCAAACCTGATTAATTCCTGAAACTGCTTGGATTTTAAACATACGATTA AAGTAAAATTCGCCCCCGAAGAAAACCTGTTAGCTCTGATCCAAAATCCCTTGATTTC AGGAGCCCTTTTGTCTTTTGTCCACTTGCTCAGGGGGGAAACCCATGTTGGGGCAGGCA AAACAAGGCTGCAG
Restriction Sites:	NotI-NotI
ACCN:	NM_014230
Insert Size:	2880 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_014230.2</u> , <u>NP_055045.2</u>
RefSeq Size:	2515 bp
RefSeq ORF:	1884 bp
Locus ID:	6730
UniProt ID:	<u>Q9UHB9</u>
Cytogenetics:	17q25.1

Protein Pathways: Protein export

Gene Summary: This gene encodes a subunit of the signal recognition particle (SRP). The SRP is a ribonucleoprotein complex that transports secreted and membrane proteins to the endoplasmic reticulum for processing. The complex includes a 7S RNA and six protein subunits. The encoded protein is the 68kDa component of the SRP, and forms a heterodimer with the 72kDa subunit that is required for SRP function. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and three pseudogenes of this gene are located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, May 2012]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).