

## Product datasheet for **SC128103**

### SRP1 (KPNA1) (NM\_002264) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SRP1 (KPNA1) (NM_002264) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRP1
Synonyms:	IPOA5; NPI-1; RCH2; SRP1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_002264, the custom clone sequence may differ by one or more nucleotides

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ATGACCACCCAGGAAAAGAGAAGTTTCGCTGAAAAGTTACAAGAACAATCTCTGAATCCCGATGAGA
TGCGCAGGAGGAGGGAGGAAGAAGGACTGCAGTTACGAAAGCAGAAAAGAGAAGAGCAGTTATTCAAGCG
GAGAAATGTTGCTACAGCAGAAGAAGAAAACAGAAGAAGTTATGTCAGATGGAGGCTTTCATGAGGCT
CAGATTAGTAACATGGAGATGGCACCAGGTGGTGTCACTTCTGACATGATTGAAATGATATTTTCCA
AAAGCCCAGAGCAACAGCTTTCAGCAACACAGAAATTCAGGAAGCTGCTTTCAAAAAGAACCTAACCTCC
TATTGATGAAGTTATCAGCACACCAGGAGTAGTGGCCAGGTTTGTGGAGTTCTCAAACGAAAAGAGAAT
TGTACTACTGCAGTTTGAATCAGCTTGGGTACTGACAAATATTGCTTCAGGAAATCTCTTCAGACCCGAA
TTGTGATTCAGGCAGGAGCTGTGCCATCTTCATAGAGTTGCTCAGCTCAGAGTTTGAAGATGTCCAGGA
ACAGGCAGTCTGGGCTCTGGCAACATTGCTGGAGATAGTACCATGTGCAGGGACTATGTCTTAGACTGC
AATATCCTTCCCCTCTTTGTCAGTTATTTCAAAGCAAAACCGCTGACCATGACCCGGAATGCAGTAT
GGGCTTTGTCTAATCTCTGTAGAGGGAAAAGTCCACCTCCAGAATTTGCAAAGGTTTCTCCATGTCTGAA
TGTGCTTTCCTGGTTGCTGTTTGTGTCAGTGACACTGATGTACTGGCTGATGCTGCTGGGCCCTCTCATAT
CTATCAGATGGACCAATGATAAAATTCAGCGGTTCATCGATGCGGGAGTATGTAGGAGACTTGTGGAAAC
TGCTGATGCATAATGATTATAAAGTGGTTTCTCCTGCTTTGCGAGCTGTGGGAAACATTGTCACAGGGGA
TGATATTCAGACACAGGTAATTCGAATTGCTCAGCTCTCAGAGTTTATTGCAATTTGCTGAGTAGCCCA
AAGGAATCTATCAAAAAGGAAGCATGTTGGACGATATCTAATATTACAGCTGGAATAGGGCACAGATCC
AGACTGTGATAGATGCCAACATTTCCAGCCCTCATTAGTATTTACAACTGCTGAATTCGGACAAG
AAAAGAAGCAGCTTGGGCCATCACAATGCAACTTCTGGAGGATCAGCTGAACAGATCAAGTACCTAGTA
GAATGGGTTGTATCAAGCCGCTCTGTGATCTCCTCAGGTCATGGACTTAAGATTGTACAGAGTTGCC
TAAATGGCTTGGAAAATATCCTGAGGCTTGGAGAACAGGAAGCCAAAAGGAATGGCACTGGCATTAAACC
TACTGTGCTTTGATTGAAGAAGCTTATGGTCTGGATAAAAATTGAGTTCTTACAGAGTCATGAAAACAG
GAGATCTACAAAAGGCCTTTGATCTTATTGAGCATTACTTCGGGACCGAAGATGAAGACAGCAGCATTG
CACCCAGGTTGACCTTAACCAGCAGCAGTACATCTTCCAACAGTGTGAGGCTCTATGGAAGGTTTCCA
GCTTTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002264 unedited

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TGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGGCTGCTCGGTGCGAGGCGG
CGGAGAGCGAGGCCTGGTGAGCACCGCCGAGGCGGGCCAGCTCTTCGAGGTTGTGCGC
GGGAGTGGCAGGCGGGCGGGCGAGCGAGGGGCTAACTTCAGCGGTGGCACCGGGATCGG
TTGCCTTGAGCCTGAAATCATGACCACCCAGGAAAAGAGAAGTTTCGCCTGAAAAGTTA
CAAGAACAATCTCTGAATCCCGATGAGATGCGCAGGAGGAGGGAGGAAGAAGGACTGCA
GTTACGAAAACAGAAAAGAGAAGAGCAGTTATTCAAGCGGAGAAAATGTTGCTACAGCAGA
AGAAGAAAACAGAAAAGAGAAGTTATGTCAGATGGAGGCTTTCATGAGGCTCAGATTAATAA
CATGGAGATGGCACCCAGGTGGTGTCACTTCTGACATGATTGAAATGATATTTTCCAA
AAGCCCAGAGCAACAGCTTTCAGCAACACAGAAATTCAGGAAGCTGCTTTCAAAAAGAAC
TAACCCTCCTATTGATGAAGTTATCAGCACACCAGGAGTAGTGGCCAGGTTTGTGGAGTT
CCTCAAACGAAAAGAGAATTGTACCACTGCAGTTTGAATCAGCTTTGGTACTGACAAAT
ATTGCTTCAGGAAATCTCTTCAACCCGAATTGTGATTACAGCAGGAGCTGTGCCATCTT
CATAGAGTTGCTCAGCTCAGAGTTTGAAGATGTCCAGGAACAGGGCAGTCTGGGCTCTT
GGNCACATTGCTGNAGATAGTACCATGTGCAGGGACTATGTCTTAGACTGGCATATNCTT
TCCCCTCTTTGTCAGTTATTTTCAAGCAAAACCGCTGACCTGACCCGA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' genomic read for NM_002264 unedited NNNGGGCCACTTGGGNGGTTGGCCACAATCCCAGGGCCACAGNAATGAGCCACCTGGG GNAGTGGGCTCACAGGNATGCCACCCGGGATTCTGTTTCAGGAAACAGCCACGACCGCC GGCCGCAATCTAGAGCCGACCCCCCCCCCCCCCCCCCCCCCAGGAAAACCCCTTCAT AATGCATCCCCAATCCGGGGGATTAATCGCTGAACTGCCTACTAGCACTAGAGAACTA AACTCAAAGCCTGCCTGTGGGTAGACTTTACAATAGAAGTGGTCTGACAAAAGCTTGGTCT TATAAAATATACTTACATATTGTTTCTTAGGCAAAAATCGGCAGCAATCTGGAATAATTC AGATTTTTTATGAGATTAATTGCCAATCTTTTTATCTGTGACGATAATGCCAAAAATGAC TCAAAGCCAATAACCTTCATCTGTCATATGGAAAAACAATCCTAGGGCAATATTTTTTT CAAAAGCGGAACTGACAAAGATAAGCGTTTAAAAGGGTCTTGATCAATTAGTTACAGGAA CATGAAAGAAAGTGTCCACAGAGAACTGTGTCTCTAAATCTCTTTCTTCTATCATCT ACCTTACCCAAAATTTCTCAATCCAACCACATCTACCTGCTGGTCCATCAGATACCAGAT GCCTTTACATCCAAAATTTCTTAATGCTTTTTTCCCCACCAAAGTTCTCATTACAAA TAATATAGATTTGNNAGTTTGGNAGGATGGAGGGGAATTAAGGAAAAGTAAAACAAA GTCCTTTTCCCAATCCTATATAAACTACAAAGATTTTCTGTATTTGAATTAACAT GCTTTTGAATGACAACCCCTTATGGTAGTTTTTCAGTGAATTTAACTAAGTTAACA GAATCTTAAGGCCCAAAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002264
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002264.2</a> , <a href="#">NP_002255.2</a>
<b>RefSeq Size:</b>	6887 bp

RefSeq ORF: 1617 bp

Locus ID: 3836

UniProt ID: [P52294](#)

Cytogenetics: 3q21.1

Domains: Armadillo\_seg, IBB

**Gene Summary:** The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC), which consists of 60-100 proteins. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion while larger molecules are transported by an active process. The protein encoded by this gene belongs to the importin alpha family, and is involved in nuclear protein import. This protein interacts with the recombination activating gene 1 (RAG1) protein and is a putative substrate of the RAG1 ubiquitin ligase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (1) lacks an alternate exon compared to variant 2 and represents the protein-coding transcript. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.