

## Product datasheet for **SC322070**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322070  
 CGCTGCTCGGTGCGAGGCGGGCGGAGAGCGAGGCCTGGTGAACACCGCCGAGGCGCGGGCC  
 AGCTCTTCGAGGTTGTGCGCGGGAGTGGCACGCGGGCGGGCGAGCGAGGGGCTAACTTC  
 AGCGGTGGCACCGGGATCGGTTGCCTTGAGCCTGAAATCATGACCACCCAGGAAAAGAG  
 AACTTTCCGCTGAAAAGTTACAAGAACAATCTCTGAATCCCGATGAGATGCGCAGGAGG  
 AGGGAGGAAGAAGGACTGCAGTTACGAAAGCAGAAAAGAGAAGAGCAGTTATTCAAGCGG  
 AGAAATGTTGCTACAGCAGAAGAAGAAAACAAGAAGAAGTTATGTCAGATGGAGGCTTT  
 CATGAGGCTCAGATTAATACATGGAGATGGCACCAGGTGGTGTATCACTTCTGACATG  
 ATTGAAATGATATTTTCCAAAAGCCAGAGCAACAGCTTTCAGCAACACAGAAATTCAGG  
 AAGCTGCTTTCAAAGAACCTAACCTCCTATTGATGAAGTTATCAGCACACCAGGAGTA  
 GTGGCCAGGTTTGTGGAGTTCCTCAAACGAAAAGAGAATTGTACTGCAGTTTGAATCA  
 GCTTGGTACTGACAAATATTGCTTCAGGAAATCTCTTCAGACCCGAATTGTGATTCAG  
 GCAGGAGCTGTGCCATCTCATAGAGTTGCTCAGCTCAGAGTTGAAGATGCCAGGAA  
 CAGGCAGTCTGGCTCTGGCAACATTGCTGGAGATAGTACCATGTACAGGGACTATGTC  
 TTAGACTGCAATATCCTTCCCCCTTTTTGCAGTATTTTCAAAGCAAACCGCCTGACC  
 ATGACCCGGAATGCAGTATGGGCTTTGTCTAATCTCTGTAGAGGGAAAAGTCCACCTCCA  
 GAATTTGCAAAGGTTTCTCCATGTCTGAATGTGCTTTCCTGGTTGCTGTTTGTGAGTGAC  
 ACTGATGACTGGCTGATGCCTGCTGGGCCCTCTCATATCTATCAGATGGACCAATGAT  
 AAAATTCAGCGGTATCGATGCGGGAGTATGTAGGAGACTTGTGGAAGTCTGATGCAT  
 AATGATTATAAAGTGGTTTCTCTGCTTTGCGAGCTGTGGGAAACATTGTACAGGGGAT  
 GATATTCAGACACAGGTAATTCTGAATTGCTCAGCTCTGCAGAGTTTATTGCATTTGCTG  
 AGTAGCCCAAAGGAATCTATCAAAAAGGAAGCATGTTGGACGATATCTAATATTACAGT  
 GGAAATAGGGCACAGATCCAGACTGTGATAGATGCCAACATTTTCCAGCCCTCATTAGT  
 ATTTTACAAAAGTCTGAATTTTCGGACAAGAAAAGAACGAGCTTGGGCCATCACAATGCA  
 ACTTCTGGAGGATCAGCTGAACAGATCAAGTACCTAGTAGAACTGGGTTGTATCAAGCCG  
 CTCTGTGATCTCCTCACGGTCTGACTCTAAGATTGTACAGGTTGCCCTAAATGGCTTG  
 GAAAATATCCTGAGGCTTGAGAACAGGAAGCCAAAAGGAATGGCACTGGCATTAAACCT  
 TACTGTGCTTTGATTGAAGAAGCTTATGGTCTGGATAAAATTGAGTTCTTACAGAGTCAT  
 GAAAACCAGGAGATCTACAAAAGGCCCTTGTATCTTATTGAGCATTACTCGGGACCGAA  
 GATGAAGACAGCAGCATTGCACCCAGGTTGACCTTAACCAGCAGCAGTACATCTTCCAA  
 CAGTGTGAGGCTCCTATGGAAGGTTTCCAGCTTTGAAGCAATACTCTGCTTTCACGTTCC  
 TGTGTCAGACCAGGCTACCCAGTCGAGTCTCTTGTGGAGCCACAGTCCCTCATGGAGCT  
 AACTTCTCAAATGTTTTCCATAACTGTTTGGCCTCATTGCTTGCCTTGCACCTGCGC  
 TCTCTTACACACATCTGGAAAACCTCCGGCTCTCTGTGGTGAATACCCTTCTAATAAAA  
 GGGTAACCAGAACGGCCACTCTCTTTACGGAAAATCCCTAGGCTTTGGAGATCCGCA  
 CTTACATTAGAGTTATGGGAATATACACATATTAATGTGGCTCCCTTTTTCTTGTGGGG  
 AATAAAAAGAGGACTCCTCCTCATTCCCTTAAACATGGGGGAAAAAACTGACATTAAGA  
 TGAGACTAAATCTTTATCTTGAATTTTACACAATACTTAACGACAAGGGAGATGTTTAG  
 ACCTGTTGTGATACTTCAGAGTACTTTTCATGAGTTCTTCCACAGTGAACCTTGGATT  
 ACCTAGTGGCTTTTTCTAGCCAGATTTGCATTAATCCTTACTGAGATTGGATGGTTTTCT  
 TTCTCTATTGGCGCCATTCTTTCAGATATTAAGTTAAACCATCCACTCCCTCACCTTCA  
 GCCTTCAGTGAATGTGCTTCTAGTTGTGAGGAAATGCTGAAGAATTAACACTTTGACTCC  
 TAAATGTGATACTGGTTTGTAGATTCCCTTAGAGCAGAAAGGAGAGGGGCACATATTAAT  
 TTGATCGCTTTTGTCTCTTTGGTCTTTTGTGCTTGAATTTGGAAGTGGTTTCATT  
 CTGTTGCTGGTATGAGGATTTTCAATACTTAGTAATCGAAAACCATATCCTGTAATTTAA  
 TAAAAAAACTAAGGAAGAAAAAACCTCCAATTTTCCAAATGCAATCAGTGAAGTAACTAG  
 GGGCTGTGTTTCTGCATTAATAAATGTTTCAGGCTTTGTGGTCTGATCAAGGTCCTC  
 ATTAATAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002264

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) 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. [More info](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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.

**RefSeq:** [NM\\_002264.2](#), [NP\\_002255.2](#)

**RefSeq Size:** 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.