

Product datasheet for **SC115795**

SRP72 (NM_006947) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRP72 (NM_006947) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRP72
Synonyms:	BMFF; BMFS1; HEL103
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_006947 edited
GCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTGAAACCGTCAGAATTTTGT
AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTCTCCTCCAAGATG
GCGAGCGGCGGCAGCGGGGGGTGTGAGTACCTGCGCTGTGGAGTGAAGTGAACCGGTAT
GGCCAGAACCGGCACTTCACGCGCGCTCTAAGACCGTCAATAAGATACTACAGATCAAC
AAGATGACGTAAGTGCCTGCATTGTAAGTGGTATGCCTTATCCAGAATGGAAGTTTC
AAGGAAGCTTTGAATGTCATCAATACTCACACCAAGTGTAGCCAATAACTCTCTCTCC
TTTGAAAAGGCATATTGCGAGTACAGGCTGAACAGAATTGAGAATGCCTTGAAGACAATA
GAAAGTGCCAACAGCAGACAGACAACTGAAGGAGCTTTATGGACAAGTGTATATCGT
TTGGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATCTCGTCCGAAACTCCCAAGAT
GATTATGATGAGGAGAGGAAAACAACTTTTACGAGTTGTTGCAGCTCAAAGCAATTGG
GAAAAAGTGGTCCAGAGAACCTGGGCTCCAAGAAGGCACACATGAGCTGTGCTACAAC
ACTGCATGTGCACTGATAGGCCAAGGCCAGCTGAACAGGCCATGAAAATCCTACAAAA
GCTGAAGATCTTTGCCCGCTTCATTATCAGAAGACACTGATGGGACTGAGGAAGACCCA
CAGGCAGAACTGGCCATCATTATGGTCCAGATGGCTTATATTCTGCAGCTTCAGGGTCGA
ACAGAGGAGGCTTTGCACTTTACAATCAATAATAAACTAAAACCAACAGATGTGGGA
TTACTAGCTGTAATTGCAATAACATCATTACCATTAACAAGGACCAAAATGTCTTTGAC
TCCAAGAAGAAAGTGAATTAACCAATGCGGAAGGAGTAGAGTTTAAAGCTTTCCAAGAAA
CAACTACAAGCTATAGAAATTAACAAAGCTTTACTTGGTATGTACACAAACCAGGCTGAA
CAATGCCGCAAAATATCTGCCAGTTTACAGTCCAAAGTCCCAGCATCTTTACCTGTG
TTAATCCAAGTGTCCAGCTCTGCCGTGAAAAGCAGCACAAAAAGCAATAGAGCTGCTT
CAGGAATTTTTCAGATCAGCATCCAGAAAATGCAGCTGAAATTAAGCTGACCATGGCACAG
TTGAAAATTTCTCAAGGTAATATTTCTAAAGCATGTCTAATATTGAGAAGCATAGAGAG
TTAAAGCATAAAACAGGCATGGTATCTGCATTAGTTACCATGTATAGCCATGAAGAAGAT
ATTGATAGTGCCATTGAGGTCTTACACAAAGCTATCCAGTGGTATCAAAACCATCAGCCA
AAATCTCTGCTCATTGTCTTGTGATAAGAGAAGCTGCAAACTTCAAACCTCAAATATGGG
CGGAAGAAGGAGGCAATTAGTGACCTACAACAGCTGTGGAACAAAAATCCAAAAGATATT
CACACCTGGCACAGCTTATTTCTGCTTACTCACTTGTAGATCCAGAGAAAGCCAAAGCT
CTTAGTAAACACTTGCCATCGTCAGATAGTATGTCTTAAAAGTAGATGTTGAGGCTCTT
GAAAATTTCTGCTGGTGTACATACATTCGGAAGAAGGGTGGAAAAGTTACTGGAGATAGT
CAACCAAAGGAACAAGGACAGGGAGATTTGAAAAGAAGAAAAAGAAAAGGAAAA
TTGCCTAAGAATTATGACCCAAAAGTTACCCAGATCCAGAAAGATGGCTGCCAATGCGA
GAACGTTCTTACTACCGGGGAAGAAAGAAGGTAAAAAGAAGGATCAGATTGGAAAAGGG
ACCCAGGGAGCAACTGCAGGAGCTTCATCTGAACTGGATGCCAGTAAAAGTGTGAGCAGC
CCACCCACCTCCCAAGACCTGGCAGTGTGCAACAGTATCTGCCTCTACAAGTAACATC
ATACCCCAAGACACCAGAACTGCAGGGGCTCCAGCAACAAAAAGAAAACAGCAACAG
AAAAAGAAGAAAGGTGAAAAAGGTGGCTGGTGTGAGAATATTCTTGTTCAGGCTGTTT
TTAAACTAGTGTGACACTAGGAATATAATAAAGGTAACACAGCAAGAAGCACAGAA
CTACTCCCTCTTCTCCATATTTTCAATAATTTCTTGTGTTTCAAATAGGGAACATCT
TCCTCAAAGTCTGCCTAGTGTGAGATATGGCCTACTGGTTGCCTCATAGCTTTGTACAGATT
ATGAGGACTGAAAATAATTGGGCATTTACCCATCTTGGTATCTGTTGTATCCTTTATCTG
TGTGTGCTGATTTGATCTTTTTTTCAGTTTACATACCTTATCTAAGGTTTCCAGGATTT
AAACAGAACTACTT

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006947 unedited</p> <pre>TCACCAATTTGGTATACGACTCACTATAGNNGGCGGCCGCGNAATTCGGCACGAGGCCTC GTCTCCTCCAATGGCGAGCGCGGCAGCGGGGGGTGTCACTACCTGCGCTGTGGAGTG AAGTGAACCGGTATGGCCAGAACGGCGACTTCACGCGCGCTCTCAAGACCGTCAATAAGA TACTACAGATCAACAAAGATGACGTAACGCCTGCATTGTAAGTGGTATGCCTTATCC AGAATGGAAGTTTCAAGGAAGCTTTGAATGTCATCAATACTCACACCAAAGTGTTAGCCA ATAAATCTCTCTCCTTTGAAAAGGCATATTGCGAGTACAGGCTGAACAGAATTGAGAATG CCTTGAAGACAATAGAAAAGTGCCAACCAGCAGACAGACAAAAGTGAAGGAGCTTTATGGAC AAGTGTTATATCGTTTGGAACGCTATGATGAATGCTTAGCAGTGTATAGATCTCGTCC GAAACTCCAAGATGATTATGATGAGGAGAGGAAAAACAACTTTTCAGCAGTTGTTGCAG CTCAAAGCAATTGGGAAAAAGTGGTTCCAGAGAACCTGNGCCTCCAAGAAGGCACACATG AGCTGTGTACAACACTGCATGTGCACTGATAGGCCAAGGCCAGCTGAACCAGGCCATGA AAATCCTACATAAAGCTGAAGATCCTTTGCCGCCGTTTATTATCAGAAGACTGATGGG ACTGAAGAAGACCCACAGGCAGAACTGGCCATCATTATGGGCAGAAAGGCTTATATTCTG CAGCTTCAGGGTGAACAGAGGGAGCTTTGCAACTTTACATTAATAATAAACTAAACC CACCGATGTGGGATTACTAGCTGAATTGCAATAACATTCTTCCCTTAACACGAACCAAA TGTCTTTTACTCCAGAACAAGTAAATACCAT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006947 unedited</p> <pre>CCCCCCCCGGCCCCCCCCNCNNTTTTACCCCNNTTTTGGGCANNCTTTCTTTTTTT TGTGGCCTNCCTTTNATGNAANACATNCATGTATTAAGTCCCTCTTATCACATGA TATTTCTAAGCAGNATATTTAGAATGCTCAGAAGATTCCACTTTCAGTCTCCTAAGAACA TAATTTAAAGTGGAACTTGAACAGNAAACAAGTATCTTCAGACTCCAGCTGAAATCATA GAAGTAGTTTCTGTTTAAATCCTGGGAAACCTTAGATAAGGTATGTGAACTGAAAAAAG ATCAAATCAGCACACAGATAAAGGATACAACAGATACCAAGATGGGTAATGCCCAAT TATTTTCAGTCTCATAATCTGTACAAAGCTATGAGGCAACCAGTAGGCCATATCTCACT AGGCAGACTTTGACGAAGATGTTTCCCTATTTGAAACACAAGAAATATGAAAATATGGA GATGAAGAGGGAGTAGTTCTGTGCTTCTGTGCTGTACCTTTATTATATTCCTAGTGTG ACTGACACTAGTTTAAAAACAGCCTGCAACAAGAATATTCTCATCACCAGCCACCTTTTC CACCTTTCTTCTTTTCTGTTGCTGTTTCTTTTTTGTGCTGGAGCCCTGCAGGTTTCT GGTGTCTTGGGGTATGATGTTACTTGTAGAGGCAGATACTGTTGCAGCACTGCCAGGTC TTGGGGAGGTGGGTGGGCTGCTCACAGTTTTACTGGCATCCAGTTCAGATGAAGCTCCTG CAGTTGCTCCCTGGTCCCTTTTTCCATCTGATCCTTCTTTTTACCCCTCTTCTTCCCC GGTAGTAAAACGTTCTCGCATTGGCAGCCATCTTCTGGGTCTGGGGTAACCTTGGGTC ATAATTCTTAGGCAATTTCCCTTCTTTTCTTTTCTTTTCAAACCTCCCTGCTCTTG GTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006947
Insert Size:	2690 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:

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_006947.2](#), [NP_008878.2](#)

RefSeq Size: 3852 bp

RefSeq ORF: 2016 bp

Locus ID: 6731

UniProt ID: [O76094](#)

Cytogenetics: 4q12

Domains: TPR

Protein Pathways: Protein export

Gene Summary: This gene encodes the 72 kDa subunit of the signal recognition particle (SRP), a ribonucleoprotein complex that mediates the targeting of secretory proteins to the endoplasmic reticulum (ER). The SRP complex consists of a 7S RNA and 6 protein subunits: SRP9, SRP14, SRP19, SRP54, SRP68, and SRP72, that are bound to the 7S RNA as monomers or heterodimers. SRP has at least 3 distinct functions that can be associated with the protein subunits: signal recognition, translational arrest, and ER membrane targeting by interaction with the docking protein. Mutations in this gene are associated with familial bone marrow failure. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1).