

## Product datasheet for **RG234559**

### SRP72 (NM\_001267722) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SRP72 (NM_001267722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SRP72
Synonyms:	BMFF; BMFS1; HEL103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234559 representing NM\_001267722  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGAGCGCGGCAGCGGGGGTGTACGTACCTGCGCTGTGGAGTGAAGTGAACCGGTATGGCCAGA  
 ACGGCGACTTACGCGCGCTCTCAAGACCGTCAATAAGATACTACAGATCAACAAAGATGACGTAACCTGC  
 CCTGCATTGTAAGTGGTATGCCTTATCCAGAATGGAAGTTTCAAGGAAGCTTTGAATGTCATCAATACT  
 CACACCAAAGTGTAGCCAATAACTCTCTCTCTTTGAAAAGGCATATTGCGAGTACAGGCTGAACAGAA  
 TTGAGAATGCCTTGAAGACAATAGAAAGTGCCAAACAGCAGACAGACAAACTGAAGGAGCTTTATGGACA  
 AGTGTATACCGTTTGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATCTCGTCCGAAACTCCCAA  
 GATGATTATGATGAGGAGAGGAAAACAAACCTTTCAGCAGTTGTTGCAGCTCAAAGCAATTGGGAAAAAG  
 TGGTTCAGAGAACCTGGGCCTCAAGAAGGCACACATGAGCTGTGCTACAACACTGCATGTGCACTGAT  
 AGGCCAAGGCCAGCTGAACAGGCCATGAAAATCTCAAAAAGCTGAAGATCTTTGCCCGCTTCATTA  
 TCAGAAGACACTGACCAAATGTCTTTGACTCCAAGAAGAAAGTGAATTAACCAATGCGGAAGGAGTAG  
 AGTTTAAGCTTTCCAAGAAACAACACTACAAGCTATAGAATTTAACAAGCTTTACTTGCTATGTACACAAA  
 CCAGGCTGAACAAATGCCGAAAAATCTGCCAGTTACAGTCCCAAAGTCCCAGCATCTTTACCTGTG  
 TTAATCCAAGCTGCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGCTGCTTCAGGAATTTT  
 CAGATCAGCATCCAGAAAATGCAGCTGAAATTAAGCTGACCATGGCACAGTTGAAAATTTCTCAAGGTAA  
 TATTTCTAAAGCATGTCTAATATTGAGAAGCATAGAGGAGTTAAGCATAAACAGGCATGGTATCTGCA  
 TTAGTTACCATGTATAGCCATGAAGAAGATATTGATAGTGCCATTGAGGTCTTACACAACTATCCAGT  
 GGTATCAAAAACCATCAGCCAAAATCTCCTGCTCATTGTCCTTGATAAGAGAAGCTGCAAACTTCAAAC  
 CAAATATGGGCGGAAGAAGGAGGCAATTAGTGACCTACAACAGCTGTGGAACAAAAATCCAAAAGATATT  
 CACACCCTGGCACAGCTTATTTCTGCTTACTCACTTGTAGATCCAGAGAAAGCCAAAGCTCTTAGTAAAC  
 ACTTGCCATCGTCAGATAGTATGTCTCTAAAAGTAGATGTTGAGGCTCTTGAAAATCTGCTGGTGTAC  
 ATACATTCGGAAGAAGGGTGGAAAAGTTACTGGAGATAGTCAACCAAAGGAACAAGGACAGGGAGATTTG  
 AAAAAGAAGAAAAGAAAAGAAAGGAAAATTCCTAAGAATTATGACCCAAAAGTTACCCAGATCCAG  
 AAAGATGGCTGCCAATGCGAGAAGCTTCTTACTACGGGGAAGAAAGAAGGTAAAAGAAGGATCAGAT  
 TGGAAAAGGGACCCAGGGAGCAACTGCAGGAGCTTCATCTGAACTGGATGCCAGTAAAACGTGAGCAGC  
 CCACCCACCTCCCAAGACCTGGCAGTGTGCAACAGTATCTGCCTCTACAAGTAACATCATACCCCAA  
 GACACCAGAAACCTGCAGGGCTCCAGCAACAAAAAGAAACAGCAACAGAAAAAGAAAGGTTGGAAA  
 AGGTGGCTGG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234559 representing NM\_001267722  
 Red=Cloning site Green=Tags(s)

MASGGSGVSVPALWSEVNRVYQNGDFTRALKTVNKILQINKDDVTALHCKVVVCLIQNGSFKEALNVINT  
 HTKVLANNLSFEKAYCEYRLNRIENALKTIESANQQTDKLELYGQVLYRLERYDECLAVYRDLVRNSQ  
 DDYDEERKTNLSAVVAAQSNWEKVVPENLGLQEGTHELCYNTACALIGQGQLNQAMKILQKAEDLCRRSL  
 SEDTDQNVFDSKKKVKLTNAEGVEFKLSKKQLQAIENKALLAMYTNQAEQCRKISASLQSQSPEHLLPV  
 LIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQGNISKACLILRSIEELKHKPGMVSA  
 LVTMYSHEEDIDSAIEVFTQAIQWYQNHQPKSPAHLSLIREANFKLYGRKKEAISDLQQLWKQNPKDI  
 HTLAQLISAYSLVDPEKAKALSKHLPSSDSMSLKVDEALENSAGATYIRKKGGKVTGDSQPKEQGGDL  
 KKKKKKKKGLPKNYDPKVTPPERWLPMPRERSYRGRKGGKDKQIGKGTQGATAGASSELDAKTVSS  
 PPTSPRPGSAATVSASTSNIIPPRHQKAGAPATKKKQQKQKGGKGGW

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001267722

**ORF Size:** 1830 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001267722.2](#)

**RefSeq Size:** 3710 bp

**RefSeq ORF:** 1833 bp

**Locus ID:** 6731

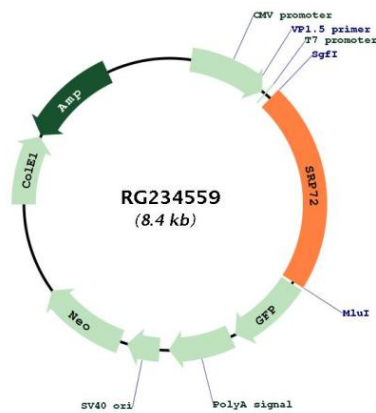
**UniProt ID:** [O76094](#)

**Cytogenetics:** 4q12

**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]

**Product images:**



Circular map for RG234559