

Product datasheet for **RG214727**

SRP72 (NM_006947) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRP72 (NM_006947) 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:

>RG214727 representing NM_006947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGAGCGCGGCAGCGGGGGTGTACGTACCTGCGCTGTGGAGTGAAGTGAACCGGTATGGCCAGA
 ACGGCGACTTCACGCGCGCTCTCAAGACCGTCAATAAGATACTACAGATCAACAAAGATGACGTAACCTGC
 CCTGCATTGTAAAGTGGTATGCCTTATCCAGAATGGAAGTTTCAAGGAAGCTTTGAATGTCATCAATACT
 CACACCAAAGTGTAGCCAATAACTCTCTCTCTTTGAAAAGGCATATTGCGAGTACAGGCTGAACAGAA
 TTGAGAATGCCTGAAGACAATAGAAAGTGCCAACCAGCAGACAGACAAACTGAAGGAGCTTTATGGACA
 AGTGTATATCGTTTGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATCTCGTCCGAAACTCCCAA
 GATGATTATGATGAGGAGAGGAAAACAAACCTTTCAGCAGTTGTTGCAGCTCAAAGCAATTGGGAAAAAG
 TGGTCCAGAGAACCTGGGCCTCAAGAAGGCACACATGAGCTGTGCTACAACACTGCATGTGCACTGAT
 AGGCCAAGGCCAGCTGAACCAGGCCATGAAAATCTACAAAAGCTGAAGATCTTTGCCCGCTTCATTA
 TCAGAAGACACTGATGGGACTGAGGAAGACCCACAGGCAGAACTGGCCATCATTATGGTCAGATGGCTT
 ATATTCTGCAGCTTCAGGTCGAACAGAGGAGGCTTTGCAACTTTACAATCAAATAATAAACTAAAACC
 AACAGATGTGGGATTACTAGCTGTAATTGCAAATAACATCATTACCATTAACAAGGACCAAAATGTCTTT
 GACTCCAAGAAGAAAGTGAATTAACCAATGCGGAAGGAGTAGAGTTTAAGCTTTCCAAGAAACAACCTAC
 AAGCTATAGAATTAACAAAGCTTTACTTGCTATGTACACAAACCAGGCTGAACAATGCCGCAAAATATC
 TGCCAGTTACAGTCCAAAGTCCCGAGCATCTTTACCTGTGTTAATCCAAGCTGCCAGCTCTGCCGT
 GAAAAGCAGCACACAAAAGCAATAGAGCTGCTTCAGGAATTTTCAGATCAGCATCCAGAAAATGCAGCTG
 AAATTAAGCTGACCATGGCAGATTGAAAATTTCTCAAGTAATATTTCTAAAGCATGTCTAATATTGAG
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 GATATTGATAGTGCCATTGAGGCTTTCACACAAGCTATCCAGTGGTATCAAAACCATCAGCCAAAATCTC
 CTGCTCATTTGCTTGTATAAGAGAAGCTGCAAACTTCAAACCTCAAATATGGGCGGAAGAAGGAGGCAAT
 TAGTGACCTACAACAGCTGTGGAACAAAATCCAAAAGATATTCACACCCTGGCAGCTTATTTCTGCT
 TACTCACTTGTAGATCCAGAGAAAGCCAAAGCTTTAGTAAACACTTGCCATCGTCAGATAGTATGTCTC
 TAAAAGTAGATGTTGAGGCTCTTGAATTTCTGCTGGTGTACATACATTGGAAGAAGGGTGGAAAAGT
 TACTGGAGATAGTCAACCAAGGAACAAGGACAGGAGATTTGAAAAGAAGAAAAGAAAAGAAAGGGA
 AAATTGCCTAAGAATTATGACCCAAAAGTTACCCAGATCCAGAAAGATGGCTGCCAATGCGAGAACGTT
 CTTACTACCGGGGAAGAAGAAGGGTAAAAGAAGGATCAGATTGAAAAGGGACCCAGGGAGCAACTGC
 AGGAGCTTCATCTGAACTGGATGCCAGTAAAACCTGTGAGCAGCCACCCACCTCCCAAGACCTGGCAGT
 GCTGCAACAGTATCTGCCTCTACAAGTAACATCATACCCCAAGACACCAGAAAACCTGCAGGGGCTCCAG
 CAACAAAAGAAAACAGCAACAGAAAAGAAAAGGTTGAAAAGGTGGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214727 representing NM_006947
 Red=Cloning site Green=Tags(s)

MASGGSGGVSVPALWSEVNRVYQNGDFTRALKTVNKILQINKDDVTALHCKVVCLIQNGSFKEALNVINT
 HTKVLANNLSFEKAYCEYRLNRIENALKTIESANQOTDKLKELYGOVL YRLERYDECLAVYRDLVRNSQ
 DDYDEERKTNLSAVVAAQSNWEKVVVPENLGLQEGTHELCYNTACALIGQGQLNQAMKILQKAEDLCRRSL
 SEDTDGTEEDPQAE LAI IHGQMAYILQLQGRTEEALQLYNQI IKLKPTDVGLLAVIANNIITINKDQNVF
 DSKKKVKLTNAEGVEFKLSKKQLQAI EFNKALLAMYTNQAEQCRKISASLQSQSPEHLLPVL IQAAQLCR
 EKQHTKAI ELLQEFSDQHPENAAEIKLTMAQLKISQGNISKA CLILRSIEELKHKPGMVSA LVTMYSHEE
 DIDS AIEVFTQAIQWYQNHQPKSPAHL SLIREAANFKLKYGRKKEAISDLQQLWKQNPDKIHTLAQLISA
 YSLVDPEKAKALSKHLPSSDSMSLKV DVEALENSAGATYIRKKGKVTGDSQPKEGGQDLKKKKKKKKG
 KLPKNYDPKVPDPERWLP MRERSYYRGRKKGKKKDKQIGKGTQGATAGASSELDASKTVSSPPTSPRPGS
 AATVSASTSNIIPPRHQKPAGAPATKKKQKQKKKGGKGGW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006947

ORF Size: 2013 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_006947.2](#), [NP_008878.2](#)

RefSeq Size: 3852 bp

RefSeq ORF: 2016 bp

Locus ID: 6731

UniProt ID: [O76094](#)

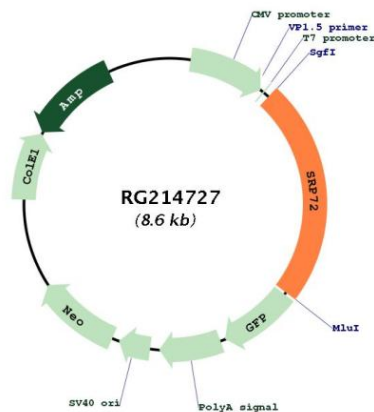
Cytogenetics: 4q12

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]

Product images:



Circular map for RG214727