

## Product datasheet for **RG214724**

### SRP68 (NM\_014230) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SRP68 (NM_014230) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SRP68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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## ORF Nucleotide Sequence:

>RG214724 representing NM\_014230  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTGCTGAGAAGCAGGTCCCAGGCGCGCGCGCGCGCGCGCAGTGGCGCGCGCGTGGCAGTGGCG  
 GCGGCGGTAGCGCGGTGGACGTGGTCCGAGGGGAAGAAAATAAGAAAACGAACGCCCTTCGGCCGG  
 ATCGAAGGCAAACAAAGAATTTGGGGATAGCCTGAGTTTGGAGATTCTTCAGATTATAAGGAATCCAG  
 CAGCAGCATGGTTTACGGCATGGAGATTTTTCAGAGGTACAGGGGCTACTGTTCCCGTAGACAAAGACGTC  
 TTCGAAAAACACTCAACTTCAAGATGGGTAAACAGACACAAATTCACAGGGAAGAAAGTACTGAAGAGCT  
 TCTGACCGATAATAGATACTTGTCTCTGGTCTGTGATGGATGCTGAAAGAGCCTGGAGCTACGCCATGCAG  
 CTGAAACAGGAAGCCAACTGAACCCCGAAAACGGTTTCACTTGTATCTCGCTACGCAAGCCGTGA  
 AGCATGCAGAGGAATTGGAACGCTTGTGTGAGAGCAATCGCGTGGATGCCAAGACCAAATAGAGGCTCA  
 GGCTTACACAGCTTACCTCTCAGGAATGCTACGTTTTGAACATCAAGAATGGAAAGCTGCCATTGAGGCT  
 TTTAACAAATGCAAACTATCTATGAGAAGCTAGCCAGTCTTTCACAGAGGAGCAGGCTGTGCTGTATA  
 ACCAACGTGTGGAAGAGATTTACCCCAACATCCGCTATTGTGCATATAATATTGGGGACCAGTCAGCCAT  
 CAATGAACTCATGCAGATGAGATTGAGGTCTGGGGCACTGAGGGTCTCTTGCTGAAAAATGGAGGCT  
 TTGATCACTCAGACTCGAGCCAAACAGGCGACTACCATGAGTGAAGTGGAGTGGAGAGGGAGAACGGTTC  
 CAGTGAAGATTGACAAAGTGCACATTTCTTATTAGGACTGGCTGATAACGAAGCAGCTATTGTCCAGGC  
 TGAAAGCGAAGAACTAAGGAGCGCCTGTTTGAATCAATGCTCAGCGAGTGTGCGGACGCCATCCAGGTG  
 GTTCGGGAGGAGCTCAAGCCAGATCAGAAACAGAGAGATTATATCCTTGAAGGAGAGCCAGGGAAGGTG  
 CTAATCTTCAACTTGCATAGTACCTGACTTACATCAAGCTATCAACGCAATCAAGCGTAATGAGAA  
 CATGGCCAAAGGTCTGCAGAGGGCTCTGCTGCAGCAGCAGCCAGAGGATGACAGCAAGCGCTCACCCTGG  
 CCCCAGGACCTGATCCGACTCTATGACATCATCTTACAGAATCTGGTGGAAATTGCTCCAGCTTCTGGTT  
 TAGAGGAAGACAAAGCCTTCCAGAAAGAGATAGGCCTCAAGACTCTGGTGTCAAAGCTTACAGGTGTTT  
 TTTTATTGCTCAGTCCTATGTGCTGGTGAAGAAGTGGAGCGAAGCCCTTGTCTGTATGACAGAGTCCTG  
 AAATATGCAAATGAAGTAAATCTGATGCTGGCGCCTTCAAGAACAGCCTAAAGGACCTGCCTGATGTGC  
 AAGAGCTCATCACTCAAGTCCGGTCAGAGAAGTGTCCCTGCAGGCCGACCCATCCTTGTGCAACGA  
 CGCTCATCAAACAGAGACCTCCTCCTCCAAGTCAAGGACAATAAGCCTCTGGTTGAACGGTTTGAAGCA  
 TTCTGCTGGACCCTTCCCTTGTACCAAGCAAGCAACCTTGTGCACTCCCACCAGGCTTCCAGCCCA  
 TTCCTTGCAGCCTTTGTTCTTTGACCTGGCCCTCAACCATGTGGCTTTCACCCTTGTAGGACAAGTT  
 GGAACAGAAGACCAAGAGTGGCCTCACTGGATACATCAAGGGCATCTTGGATTACAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

## Protein Sequence:

>RG214724 representing NM\_014230  
 Red=Cloning site Green=Tags(s)

MAAEKQVPGGGGGSGGGGSGGGGSGGGRAGGEEENKENERPSAGSKANKEFGDSLSEILQIIKESQ  
 QQHGLRHGDFQRYRGYCSRRQRRLRKTLLNFKMGNRHKFTGKKVTEELLTDNRYLLLVMDAERAWSYAMQ  
 LKQEANTEPRKRFLHLLSRLRKAVKHAEELERLCESNRVDAKTLEAQAYTAYLSGMLRFEHQEWKAAIEA  
 FNKCKTIYEKLASAFTEEQAVLYNQRVVEISPNIRYCAYNIGDQSAINELMQMRLRSGGTEGLLAEKLEA  
 LITQTRAKQAATMSEVEWRGRTVPVKIDKVRIIFLLGLADNEAAIVQAESEETKERLFESMLSECRDAIQV  
 VREELKPDQKQRDYILEGEPGKVSNLQYLHLSYLYIKLSTAIKRNNMAKGLQRALLQQQPEDDSKRSR  
 PQDLIRLYDIILQNLVELLQPLGLEEDKAFQKEIGLKTLLVFKAYRCFFIAQSYVLVKKWSEALVLYDRVL  
 KYANEVNSDAGAFKNSLKDLPDVQELITQVRSEKCSLQAAAILDANDAHQTETSSSQVKDNKPLVERFET  
 FCLDPSLVTKQANLVHFPFPGFQIPCKPLFFDLALNHVAFPPELDEKLEQKTKSGLTGYIKGIFGFRS

TRTRPLE - GFP Tag - V

## Restriction Sites:

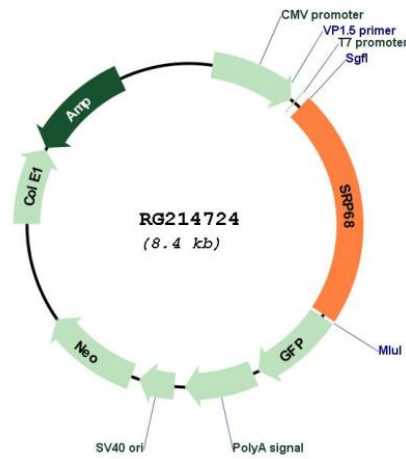
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_014230

ORF Size: 1881 bp

<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_014230.4</a>
<b>RefSeq Size:</b>	2515 bp
<b>RefSeq ORF:</b>	1884 bp
<b>Locus ID:</b>	6730
<b>UniProt ID:</b>	<a href="#">Q9UHB9</a>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Pathways:</b>	Protein export
<b>Gene Summary:</b>	This gene encodes a subunit of the signal recognition particle (SRP). The SRP is a ribonucleoprotein complex that transports secreted and membrane proteins to the endoplasmic reticulum for processing. The complex includes a 7S RNA and six protein subunits. The encoded protein is the 68kDa component of the SRP, and forms a heterodimer with the 72kDa subunit that is required for SRP function. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and three pseudogenes of this gene are located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, May 2012]