

Product datasheet for **RG232382**

SRP68 (NM_001260503) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: SRP68 (NM_001260503) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: SRP68
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG232382 representing NM_001260503
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCAGCGAGTGTGGGACGCCATCCAGGTGGTTGGGAGGAGCTCAAGCCAGATCAGAAACAGAGAG
 ATTATATCCTTGAAGGAGAGCCAGGGAAGGTGTCTAATCTTCAATACTTGCATAGCTACCTGACTTACAT
 CAAGCTATCAACGGCAATCAAGCGTAATGAGAACATGGCCAAAGGTCTGCAGAGGGCTCTGCTGCAGCAG
 CAGCCAGAGGATGACAGCAAGCGCTCACCCGGCCCCAGGACCTGATCCGACTCTATGACATCATCTTAC
 AGAATCTGGTGAATTGCTCCAGCTTCTGGTTTAGAGGAAGACAAAGCCTTCCAGAAAGAGATAGGCCT
 CAAGACTCTGGTGTCAAGCTTACAGGTGTTTTTTCATTGCTCAGTCCTATGTGCTGGTGAAGAAGTGG
 AGCGAAGCCCTTGTCTGTATGACAGAGTCTGAAATATGCAAATGAAGTAAATTCTGATGCTGGCGCCT
 TCAAGAACAGCCTAAAGGACCTGCCTGATGTGCAAGAGCTCATCACTCAAGTGCGGTGAGAGAAGTGTCT
 CCTGCAGGCCGACCCATCCTTGATGCAAACGACGCTCATCAAACAGAGACCTCCTCCTCCAAGTCAAG
 GACAATAAGCCTCTGGTTGAACGTTTGGAGACATTCTGCCTGGACCCTTCCCTTGTACCAAGCAAGCCA
 ACCTTGTGCACTCCCACCAGGCTTCCAGCCATTCCCTGCAAGCCTTTGTTCTTTGACCTGGCCCTCAA
 CCATGTGGCTTCCACCCTTGGAGACAAGTTGGAACAGAAGACCAAGAGTGGCCTCACTGGATACATC
 AAGGGCATCTTTGGATTCAGGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232382 representing NM_001260503
 Red=Cloning site Green=Tags(s)

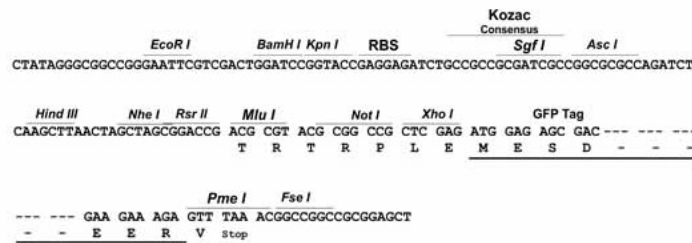
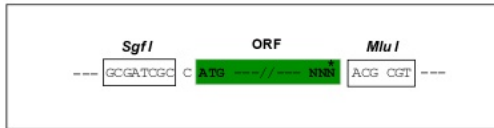
MLSECRDAIQVVREELKPDQKQRDYILEGEPGKVSNLQYLHLSYLYIKLSTAIKRNNEMAKGLQRALLQQ
 QPEDDSKRSRPPQDLIRLYDIIILQNLVELLQLPGLLEEDKAFQKEIGLKTLLVFKAYRCFFIAQSYVLVKKW
 SEALVL YDRVLYANVNSDAGAFKNSLKDLPDVQELITQVRSEKCSLQAAAILDANDAHTETSSSQVK
 DNKPLVERFETFLDPSLVTKQANLVHFPPGFQPIPKPLFFDLALNHVAFPPLEDKLEQTKSGLTGYI
 KGIFGFRS

TRTRPLE - GFP Tag - V

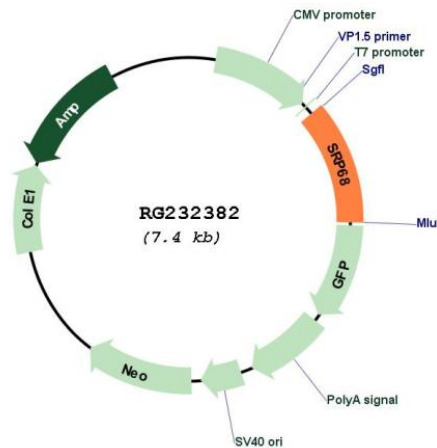
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001260503

ORF Size: 864 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:	<ol style="list-style-type: none">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_001260503.1 , NP_001247432.1
RefSeq Size:	2045 bp
RefSeq ORF:	867 bp
Locus ID:	6730
UniProt ID:	Q9UHB9
Cytogenetics:	17q25.1
Protein Pathways:	Protein export
Gene Summary:	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]