

Product datasheet for **RC221573**

SRP9 (NM_003133) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SRP9 (NM_003133) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: SRP9

Synonyms: ALURBP

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC221573 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCAGTACCAGACCTGGGAGGAGTTCAGCCGCGCTGCCGAGAAGCTTTACCTCGTGACCCTATGA
AGGCACGTGTGGTTCTCAAATATAGGCATTCTGATGGAACTTGTGTGTTAAAGTAACAGATGATTTAGT
TTGTTTGGTGTATAAAACAGACCAAGCTCAAGATGTAAGAAGATTGAGAAATCCACAGTCAACTAATG
CGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAACTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221573 protein sequence
Red=Cloning site Green=Tags(s)

MPQYQTWEEFSRAAEKLYLADPMKARVVLKYRHS DGNLCVKVTDLVLVYKTDQAQDVKKIEKFHSQLM
RLMVAKEARNVTMETE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6416_c09.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_003133

ORF Size: 258 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_003133.6](#)

RefSeq Size: 1524 bp

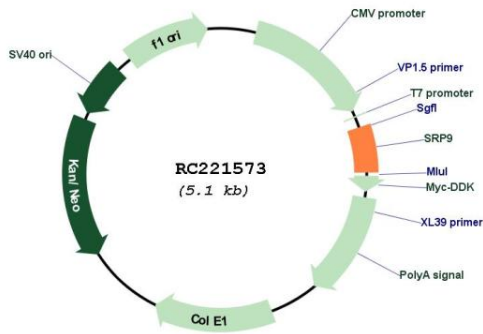
RefSeq ORF: 261 bp

Locus ID: 6726

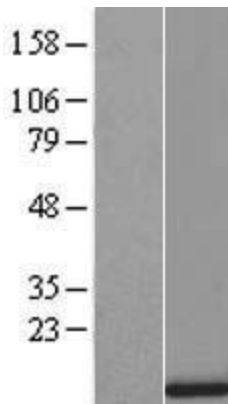
UniProt ID: [P49458](#)
 Cytogenetics: 1q42.12
 Protein Families: Druggable Genome
 Protein Pathways: Protein export
 MW: 10.1 kDa

Gene Summary: Signal-recognition-particle assembly has a crucial role in targeting secretory proteins to the rough endoplasmic reticulum membrane. SRP9 together with SRP14 and the Alu portion of the SRP RNA, constitutes the elongation arrest domain of SRP. The complex of SRP9 and SRP14 is required for SRP RNA binding.[UniProtKB/Swiss-Prot Function]

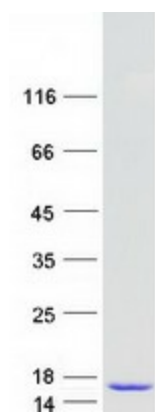
Product images:



Circular map for RC221573



Western blot validation of overexpression lysate (Cat# [LY418876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221573 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SRP9 protein (Cat# [TP321573]). The protein was produced from HEK293T cells transfected with SRP9 cDNA clone (Cat# RC221573) using MegaTran 2.0 (Cat# [TT210002]).