

Product datasheet for **RC226577**

SAR1 (SAR1A) (NM_001142648) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SAR1 (SAR1A) (NM_001142648) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SAR1A
Synonyms: masra2; SAR1; Sara; SARA1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC226577 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTTTCATCTTTGAGTGGATCTACAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGACTGTACAAGA
AATCTGGAAAACCTGTATTCTTAGGTTTGGATAATGCAGGCAAACCACTCTTCTCACATGCTCAAAGA
TGACAGATTGGGCAACATGTTCCAACACTACATCCGACATCAGAAGAGCTAACAATTGCTGGAATGACC
TTTACAACCTTTGATCTTGGTGGCAGCAGCAAGCACGTGCGCTTTGGAAAAATTATCTCCAGCAATTA
ATGGGATTGTCTTCTGGTGGACTGTGCAGATCATTCTCGCCTCGTGAATCCAAAGTTGAGCTTAATGC
TTAATGACTGATGAAACAATATCCAATGTGCCAATCCTTATCTTGGTAACAAAATTGACAGAACAGAT
GCAATCAGTGAAGAAAACTCCGTGAGATATTTGGGCTTATGGACAGACCACAGGAAAGGGGAATGTGA
CCCTGAAGGAGCTGAATGCTCGCCCATGGAAGTGTTTCATGTGCAGTGTGCTCAAGAGGCAAGGTTACGG
CGAGGGTTTCCGCTGGCTCTCCCAATATATTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226577 protein sequence
Red=Cloning site Green=Tags(s)

MSFIFEWIYNGFSSVLQFLGLYKKSGLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMT
FTTFDLGGHEQARRVWKNYLPAINGI VFLVDCADHSRLVESKVELNALMTDETISNVPIILGNKIDRTD
ATSEEKLRIFGLYGQTTGKGNVTLKELNARPEVFMCSVLKRQYGEFWRWLSQYID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6084_a06.zip



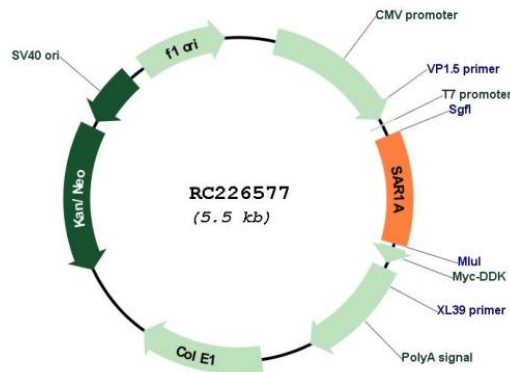
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142648

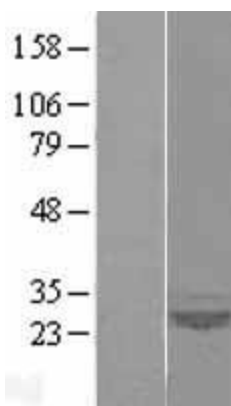
ORF Size: 594 bp

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](#)

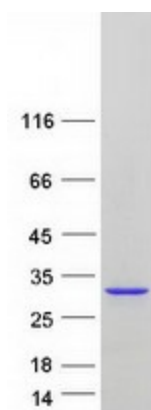
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001142648.2
RefSeq Size:	3088 bp
RefSeq ORF:	597 bp
Locus ID:	56681
UniProt ID:	Q9NR31
Cytogenetics:	10q22.1
MW:	22.4 kDa
Gene Summary:	Involved in transport from the endoplasmic reticulum to the Golgi apparatus (By similarity). Required to maintain SEC16A localization at discrete locations on the ER membrane perhaps by preventing its dissociation. SAR1A-GTP-dependent assembly of SEC16A on the ER membrane forms an organized scaffold defining endoplasmic reticulum exit sites (ERES). [UniProtKB/Swiss-Prot Function]

Product images:



Western blot validation of overexpression lysate (Cat# [LY428231]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226577 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SAR1A protein (Cat# [TP326577]). The protein was produced from HEK293T cells transfected with SAR1A cDNA clone (Cat# RC226577) using MegaTran 2.0 (Cat# [TT210002]).