

Product datasheet for SC113196

SAR1 (SAR1A) (NM_020150) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAR1 (SAR1A) (NM_020150) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAR1
Synonyms:	masra2; SAR1; Sara; SARA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113196 sequence for NM_020150 edited (data generated by NextGen Sequencing)

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ATGTCTTTCATCTTTGAGTGGATCTACAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGA
CTGTACAAGAAATCTGGAAAACCTGTATTCTTAGGTTTGGATAATGCAGGCAAAACCACT
CTTCTTCACATGCTCAAAGATGACAGATTGGGCCAACATGTTCCAACACTACATCCGACA
TCAGAAGAGCTAACAAATTGCTGGAATGACCTTTACAACCTTTTGATCTTGGTGGGCACGAG
CAAGCACGTCGCGTTTGGAAAAATTATCTCCAGCAATTAATGGGATTGTCTTTCTGGTG
GACTGTGCAGATCATTCTCGCTCGTGAATCCAAAGTTGAGCTTAATGCTTTAATGACT
GATGAAACAATATCCAATGTCCAATCCTTATCTTGGTAACAAAATTGACAGAACAGAT
GCAATCAGTGAAGAAAACTCCGTGAGATATTTGGCTTTATGGACAGACCACAGGAAAG
GGGAATGTGACCCTGAAGGAGCTGAATGCTCGCCCATGGAAGTTCATGTGCAGTGTG
CTCAAGAGGCAAGTTACGGCGAGGGTTTCCGCTGGCTCTCCAGTATATTGACTGA

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Clone variation with respect to NM_020150.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_020150 unedited GCACCATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGCCTCGTGCCGA ATTCGGCAGCAGGCCCCGGGTGCTGCTGGTTAGTGTGCTCTGAGGGAGGGTCCGAGCCAGC CGCTGTTTTGCCGGAGGAGCCCCCAGGCCGTAGTAAGCATTAAATGTCTTTTCATCTT TGAGTGGATCTACAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGACTGTACAAGAAATC TGGAAAACTTGTATTCTTAGGTTTGGATAATGCAGGCAAAACCACTCTTCTTCACATGCT CAAAGATGACAGATTGGCCAACATGTTCCAACACTACATCCGACATCAGAAGAGCTAAC AATTGCTGGAATGACCTTTACAACTTTTGATCTTGGTGGCAGCAGCAAGCACGTGCGGT TTGAAAAAATTATCTCCCAGCAATTAATGGGATTGTCTTCTGGTGGACTGTGCAGATCA TTCTCGCCTCGTGAATCCAAAGTTGAGCTTAATGCTTTAATGACTGATGAAACAATATC CAATGTGCCAATCCTTATCTTGGTAACAAAATTGACAGAACAGATGCAATCAGTGAAGA AAAACCTCCGTGAGATATTTGGCTTTATGGACAGACCACAGAAAGGTGAATGTGACCCC TGAAGACCTGAATGCTCGCCCCATGGAAGTGTTCATGTGCAGTGTGCTCAAAAGCCAAGT TACGGCGAAGGTTCTCGCTGCCTCTCCCAGTATATTGACTGATGTTTGAACGTGGAAAAT AAAAAGTCTACTTCTCTGGACTGAACCTATTCACACCTTCTCATGAACTTTTTCTAAA AGACCAAGAAAGCTCTCAACCCCTGGCTTGGCGTTGAAAAGCCCAGAGTCTTTGGTAACT CTTTCATTGCCCCAAGTGTACAC
Restriction Sites:	NotI-NotI
ACCN:	NM_020150
Insert Size:	3200 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_020150.1 , NP_064535.1
RefSeq Size:	761 bp
RefSeq ORF:	597 bp
Locus ID:	56681
UniProt ID:	Q9NR31
Cytogenetics:	10q22.1
Domains:	SAR, ARF, arf

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.