

Product datasheet for **SC320117**

SAR1B (NM_016103) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAR1B (NM_016103) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAR1B
Synonyms:	ANDD; CMRD; GTBPB; SARA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_016103.2 GCCGGCCCGGAAGGGGCTGATGCGAACTGGGGCCACGGCAGCCATCGCGCTTTGCAGTTC GGTCTCCTGGGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCTCCAGTCGCAGACCC TATCAGATTTGGATATGTCCTTCATATTTGATTGGATTTACAGTGGTTTCAGCAGTGTGC TACAGTTTTTAGGATTATATAAGAAAAGTAACTGGTATTTCTTGGATTGGATAATG CAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTTGGACAACATGTCCCAA CATTACATCCCACCTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACCTTTTGATC TGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTCCTGCTATCAATGGCA TTGATTTCTGGTGGATTGTGCAGACCACGAAAGGCTGTAGAGTCAAAGAAGAAGCTTG ATTCATAATGACAGATGAAACCATTGCTAATGTGCCTATACTGATTCTTGGGAATAAGA TCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATGTTTGGTTTATATGGTC AGACAACAGGAAAGGGGAGTATATCTCTGAAAGAACTGAATGCCCGACCCCTAGAAGTTT TCATGTGTAGTGTGCTCAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGT ACATTGATTAACACAACTCACATTGGTCCAGGCTCAACGTTTCAAGGCTTACTCAGAGA TTTGATTGCTCAACATGCATAAATTGAATCAATAGACTTTTGTGGTTATAAACAGAT GTTTTTAGATTATTAATATTAATCAACTAATTTGAATGAGAATTGAAAAGCTGATTCA AGTAAGTTTGAGTATCACAATGTTAGCTTTCTAATTCATAAAAGTACTTGGTTTTTACA GTTTATAATCTGACATCACCCAGCGCCATTTGTAAGAGCAACTTTCCAGCAGTACATT TGAAGCACTTTTTAAACAACATGAACTATAAACCATATTTAAAAGCTCATCATGTTAAAT TTTTTATGTACTTTTCTGGAAGTGTGTTTTAAATTTTAGATTATATGTCCACCTATCTTA AGTGACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCCTTACAGTTTTCAATAA CTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGCCAAAAA AAAAA
Restriction Sites:	Please inquire
ACCN:	NM_016103



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_016103.2</u> , <u>NP_057187.1</u>
RefSeq Size:	1258 bp
RefSeq ORF:	597 bp
Locus ID:	51128
UniProt ID:	<u>Q9Y6B6</u>
Cytogenetics:	5q31.1
Domains:	SAR, ARF, arf
Gene Summary:	<p>The protein encoded by this gene is a small GTPase that acts as a homodimer. The encoded protein is activated by the guanine nucleotide exchange factor PREB and is involved in protein transport from the endoplasmic reticulum to the Golgi. This protein is part of the COPII coat complex. Defects in this gene are a cause of chylomicron retention disease (CMRD), also known as Anderson disease (ANDD). Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>