

Product datasheet for **SC311081**

SIRP alpha (SIRPA) (NM_001040023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRP alpha (SIRPA) (NM_001040023) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRPA
Synonyms:	BIT; CD172A; MFR; MYD-1; P84; PTPNS1; SHPS1; SIRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001040023 edited
 ATGGAGCCCGCCGCCCCGCCCCGCCCCGCGCCCTCGGGCCGCTGCTGCCTGCTGCTCGCC
 GCGTCCTGCGCCTGGTCAGGAGTGCGGGTGAGGAGGAGCTGCAGGTGATTCAGCCTGAC
 AAGTCCGTGTTGGTTGCAGCTGGAGAGACAGCCACTCTGCGCTGACTGCGACCTCTCTG
 ATCCCTGTGGGGCCCATCCAGTGGTTCAGAGGAGCTGGACCAGGCCGGAATTAATCTAC
 AATCAAAAAGAAGGCCACTTCCCCCGGGTAACAACCTGTTTCAGACCTCACAAAGAGAAAC
 AACATGGACTTTTCCATCCGCATCGGTAACATCACCCAGCAGATGCCGGCACCTACTAC
 TGTGTGAAGTCCCGAAAGGGAGCCCCGATGACGTGGAGTTAAGTCTGGAGCAGGCACT
 GAGCTGTCTGTGCGGCCAAACCCTCTGCCCCCGTGGTATCGGGCCCTGCGGCGAGGGCC
 ACACCTCAGCACACAGTGAAGTTCACCTGCGAGTCCCACGGCTTCTCACCCAGAGACATC
 ACCCTGAAATGGTTCAAAAATGGGAATGAGCTCTCAGACTTCCAGACCAACGTGGACCCC
 GTAGGAGAGAGCGTGTCTTACAGCATCCACAGCACAGCCAAGGTGGTGTGACCCGCGAG
 GACGTTCACTCTCAAGTCATCTGCGAGGTGGCCACGTACCTTGCAGGGGGACCCCTCTT
 CGTGGGACTGCCAATTGTCTGAGACCATCCGAGTTCACCCACCTTGGAGGTTACTCAA
 CAGCCCGTGAGGGCAGAGAACCAGGTGAATGTCACCTGCCAGGTGAGGAAGTTCTACCC
 CAGAGACTACAGCTGACCTGGTTGGAGAATGGAACGTGTCCCGGACAGAAACGGCCTCA
 ACCGTTACAGAGAACAAGGATGGTACCTACAACCTGGATGAGCTGGCTCCTGGTGAATGTA
 TCTGCCACAGGGATGATGTGAAGCTCACCTGCCAGGTGGAGCATGACGGGCAGCCAGCG
 GTCAGCAAAAAGCCATGACCTGAAGTCTCAGCCACCCGAAGGAGCAGGGCTCAAATACC
 GCCGCTGAGAACACTGGATCTAATGAACGGAACATCTATATTGTTGGTGGTGTGGTGTGC
 ACCTTGCTGGTGGCCCTACTGATGGCGGCCCTCTACCTCGTCCGAATCAGACAGAAGAAA
 GCCCAGGGCTCCACTTCTTCTACAAGGTTGCATGAGCCCGAGAAGAATGCCAGAGAAATA
 ACACAGGACACAAATGATATCACATATGCAGACCTGAACCTGCCAAGGGGAAGAAGCCT
 GCTCCCCAGGCTGCGGAGCCCAACAACCACACGGAGTATGCCAGCATTACAGACCAGCCCG
 CAGCCCGCTCGGAGGACACCCTCACCTATGCTGACCTGGACATGGTCCACCTCAACCGG
 ACCCCCAAGCAGCCGGCCCCCAAGCCTGAGCCGTCCTTCTCAGAGTACGCCACGCTCCAG
 GTCCCCGAGGAAGTGA



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Restriction Sites:	Please inquire
ACCN:	NM_001040023
Insert Size:	2300 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).
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_001040023.1</u> , <u>NP_001035112.1</u>
RefSeq Size:	4109 bp
RefSeq ORF:	1515 bp
Locus ID:	140885
UniProt ID:	<u>P78324</u>
Cytogenetics:	20p13
Protein Families:	Druggable Genome, Phosphatase, Transmembrane

Gene Summary:

The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate, in-frame, splice donor site in the 3' coding region compared to variant 4. This variant encodes a shorter protein (isoform 1) compared to isoform 2. Variants 1, 2, and 3 encode the same protein (isoform 1).