

Product datasheet for **SC120326**

SIRP alpha (SIRPA) (NM_080792) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRP alpha (SIRPA) (NM_080792) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRP alpha
Synonyms:	BIT; CD172A; MFR; MYD-1; P84; PTPNS1; SHPS1; SIRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_080792 edited
 GAATTCGGCAGCAGGCCCTGGCTTTATTTCTCGCGCGCTTGGGGTCTCTCCCAGTCTCCG
 TCTCTCCATTTCTCTGGGGGGCGGGGAGGGGGGTCTCCTCAAAAACCGCGCGGGCGCG
 CGGCCGCTCCAGGCGCCGTTCCGGAGTCGGGGGAGGCCAGCCGGGAGGGGGGAAGGG
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AGACCTGAACCTGCCAAGGGGAAGAAGCCTGCTCCCCAGGCTGCGGAGCCCAACAACCA
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GAAGGAAAACAGGCCCATTTTGTATATAGTTGCAACTTAACTTTTTGGCTTGCAAAAATA
TTTTTGAATAAAGATTCTGGGTAATAATGAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080792 unedited
 AACTTTTGGATTTTGTAAACACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCC
 TGGCTTTATTTCTCGCGCGCTTGGGGTCTCTCCAGTCTCCGTCTCTCCATTTCTCTGG
 GGGCGGGGAGGGGGGTCTCCAAAACCGCGCGGCCGGCGGCCGCTCCAGGCGCC
 GTTCCGGAGTCGGGGGAGGCCAGCCGGGAGGGGGAATGGGGGAGCCTTATTCATTT
 CCCCCTCCAGCTGCTCCCGCCGAGCGCGCACTCACGGCCGCTCTCCCTCTCGTCC
 GCAGCCGCGCCCATGGAGCCCGCCGCGCCCGCCCGCCCGCCCGCTCGGGCCGCTCTG
 CCTGCTGCTCGCGCGTCTGCGCTGGTCAGGAGTGGCGGTGAGGAGGAGCTGCAGGT
 GATTACAGCTGACAAGTCCGTGTTGTTGCAGCTGGAGAGACAGCCACTCTGCGTGCAC
 TGCGACCTCTGATCCCTGTGGGGCCATCCAGTGGTTCAGAGGAGCTGGACCAGGCCG
 GGAATTAATCTACAATCAAAAAGAAAGCCACTTCCCCGGGTAACAATGTTTCAGACCT
 CACAAAGAGAAACAACATGGACTTTTCCATCCGCATCGGTAACATCACCCAGCAGATGC
 CGGCACCTACTACTGTGTGAAGTCCGGATAGGGAGCCCCGATGACGTGGAGTTAAGTC
 TGGAGCAGGCACTGAGCTGTCTGTGCGGCCAAACCCTCTGCCCCGTGGTATCGGGCC
 TGCGGCGAGGGCCACACCTCAGCACACAGTGAGCTTACCTGCGAGTCCCACGGTTCTC
 ACCAGAGACTCACCTGAAATGGTTCANAAATGGGGATGAGCTCTCAGACTTNCAGACAA
 CGTGGACCCCGTAGAGAGAGCGTGTCTACAGCATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_080792 unedited
 ACCGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATTATTACCCAAAAT
 CTTTATTACAAAATATTTTGAAGCCAAAAGTTAAGTTGCACTATATACAAAATGGG
 GCCTGTTTCTTCCCAGCAGTCTTAAAATAAACTCTGAAACCATGCTCCTCCGCGAGG
 TTGGTTCGACCTTCTCTTTTCTGGGGTCAATACACAAGGTATGTGGATTCTCCAGGT
 TGCCAGGCTAAAGCTAAAGCTATACATCTTCTTGGCCTTATTCCTTATTTCCCCTCC
 AAGAATAAAAATAAAAATAAAATGAAAATGGCACCAAGAAAACATTCTTTAAAAATACT
 GAATGTGTGTGCATGCGTGTGCACACGATGTGCTGTCTCTGGGTAAGAGAGGGGAG
 ACGAAGGTTTACAAGCCAATCTTTTGGAAATTTGGAAGTACTAGCCTGAGCCAGGTGGTGGT
 CACTGTGGCTCCCAGATGCCACACGGGAGCTCTGGCCAAAGCTGTCCACATGGTCTGTTG
 GCTCAGCTAATCCTGGATGCCATCATTGAAATACCAGGTGACCATCCCCCAGAGAGCT
 GGGTCTATGCTGAGCTCTGCAGTTTACCTGTAGGACCTCCAGGAATGGGCAGGATGGC
 TCAGCTACTTTTACAGCCTGAGCCAGAAATCCCTTGGGCATCCCAAGGCCAGGATCATG
 AACATTAGCGTCTCAACTCTAAGAGTATAGTGAAGACTGAAAAATAGGGCTTGGCAGATC
 TGCTTGCCTGGGCCNGTCAGGCCCTCACACCCGACTGGAGGGTGGGGGNTAAGGGGT
 ACTGGGTACACCCTTGGCCACCTTCTGGACAGAGGGAAATANCCGAGCTTACACTGCA
 CATCCCCTGGCTGNCTCAATTATTCAA

Restriction Sites:

NotI-NotI

ACCN:

NM_080792

Insert Size:

3860 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:

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_080792.1](#), [NP_542970.1](#)

RefSeq Size: 3872 bp

RefSeq ORF: 1515 bp

Locus ID: 140885

UniProt ID: [P78324](#)

Cytogenetics: 20p13

Domains: ig, IGv, IGc1, IG

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 (3) 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).