

Product datasheet for SC311067

SIRP alpha (SIRPA) (NM 001040022) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: SIRP alpha (SIRPA) (NM_001040022) Human Untagged Clone

Tag: Tag Free
Symbol: SIRP alpha

Synonyms: BIT; CD172A; MFR; MYD-1; P84; PTPNS1; SHPS1; SIRP

Mammalian Cell

Selection:

None

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001040022 edited

GTCCCGAGGAAGTGA

ATGGAGCCCGCCGGCCCCGGCCGCCTCGGGCCGCTGCTCTGCCTGCTCGCC GCGTCCTGCGCCTGGTCAGGAGTGGCGGGTGAGGAGGAGCTGCAGGTGATTCAGCCTGAC AAGTCCGTGTTGGTTGCAGCTGGAGAGACAGCCACTCTGCGCTGCACTGCGACCTCTCTG ATCCCTGTGGGGCCCATCCAGTGGTTCAGAGGAGCTGGACCAGGCCGGGAATTAATCTAC AATCAAAAAGAAGGCCACTTCCCCCGGGTAACAACTGTTTCAGACCTCACAAAGAGAAAC AACATGGACTTTTCCATCCGCATCGGTAACATCACCCCAGCAGATGCCGGCACCTACTAC TGTGTGAAGTTCCGGAAAGGGAGCCCCGATGACGTGGAGTTTAAGTCTGGAGCAGGCACT GAGCTGTCTGTGCGCCCAAACCCTCTGCCCCCGTGGTATCGGGCCCTGCGGCGAGGGCC ACACCTCAGCACACAGTGAGCTTCACCTGCGAGTCCCACGGCTTCTCACCCAGAGACATC ACCCTGAAATGGTTCAAAAATGGGAATGAGCTCTCAGACTTCCAGACCAACGTGGACCCC GTAGGAGAGAGCGTGTCCTACAGCATCCACAGCACAGCCAAGGTGGTGCTGACCCGCGAG GACGTTCACTCTCAAGTCATCTGCGAGGTGGCCCACGTCACCTTGCAGGGGGACCCTCTT CAGCCCGTGAGGGCAGAGAACCAGGTGAATGTCACCTGCCAGGTGAGGAAGTTCTACCCC CAGAGACTACAGCTGACCTGGTTGGAGAATGGAAACGTGTCCCGGACAGAAACGGCCTCA ACCGTTACAGAGAACAAGGATGGTACCTACAACTGGATGAGCTGGCTCCTGGTGAATGTA GTCAGCAAAAGCCATGACCTGAAGGTCTCAGCCCACCCGAAGGAGCAGGGCTCAAATACC GCCCAGGGCTCCACTTCTTCTACAAGGTTGCATGAGCCCGAGAAAATACCCAGAGAAATA ACACAGGACACAAATGATATCACATATGCAGACCTGAACCTGCCCAAGGGGAAGAAGCCT GCTCCCCAGGCTGCGGAGCCCAACAACCACACGGAGTATGCCAGCATTCAGACCAGCCCG CAGCCCGCGTCGGAGGACACCCTCACCTATGCTGACCTGGACATGGTCCACCTCAACCGG ACCCCAAGCAGCCGGCCCCAAGCCTGAGCCGTCCTTCTCAGAGTACGCCAGCGTCCAG

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Restriction Sites: Please inquire ACCN: NM_001040022

Insert Size: 2500 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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 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: 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 001040022.1, NP 001035111.1</u>

 RefSeq Size:
 4201 bp

 RefSeq ORF:
 1515 bp

 Locus ID:
 140885

 UniProt ID:
 P78324

 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 (1) 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).