

## Product datasheet for **MR230327**

### Sirpa (NM\_001291019) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sirpa (NM_001291019) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sirpa
Synonyms:	AI835480; Bit; CD172a; P84; Ptpns1; SHP-1; SHPS-1; SIRP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230327 representing NM\_001291019  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCGCCGGCCCGCCCTGGCCGCTAGGGCCGCTGCTGCTCTGCCTGCTGCTCTCCGCGTCT  
 GTTTCTGTACAGGAGCCACGGGGAAGGAACTGAAGGTGACTCAGCCTGAGAAATCAGTGTCTGTTGCTGC  
 TGGGGATTTCGACCGTTCTGAAGTGCACCTTTGACCTCCTTGTGCCGGTGGGACCCATTAGGTGGTACAGA  
 GGAGTAGGGCCAAGCCGGCTGTTGATCTACAGTTTCGAGGAGAAACGTTCTCGAATTAGAAATGTTT  
 CAGATACTACTAAGAGAAACAATATGGACTTTCCATCCGATCAGTAATGTCACCCAGCAGATGCTGG  
 CATCTACTACTGTGTGAAGTTCAGAAAGGATCATCAGAGCCTGACACAGAAATAACAATCTGGAGGGGA  
 ACAGAGGTCTATGTACTCGCAAACCTTCCACCGGAGGTATCCGGCCAGCAGACAGGGGCATACCTG  
 ACCAGAAAGTGAAGTTCACCTGCAAGTCTCATGGCTTCTCTCCCGGAATATCACCTGAAGTGGTTCAA  
 AGATGGGCAAGAACTCCACCCCTTGGAGACCACCGTGAACCTAGTGGAAAGAATGTCTCCTACAACATC  
 TCCAGCACAGTCAGGGTGGTACTAACTCCATGGATGTTAATTCTAAGGTCATCTGCGAGGTAGCCACA  
 TCACCTTGGATAGAAGCCCTCTTCGTGGGATTGCTAACCTGTCTAACTTCATCCGAGTTTACCCACCGT  
 GAAGGTACCCAAACAGTCCCGACGTCAATGAACCAGGTGAACCTCACCTGCCGGGTGAGAGGTTCTAC  
 CCCGAGGATCTCCAGCTGATCTGGCTGGAGAATGGAAACGTATCACGGAATGACACGCCCAAGAATCTCA  
 CAAAGAACACGGATGGGACCTATAATTACACAAGCTTGTTCCTGGTGAACATCTGCTCATAGAGAGGA  
 CGTGGTGTTCAGTGCCAGGTGAAGCACGACCAACAGCCAGCGATCACCCGAAACCATACCGTCTGGGA  
 TTTGCCACTCGAGTGATCAAGGGAGCATGCAAACCTTCCCTGATAATAATGCTACCCACAACCTGGAATG  
 TCTTCTCGTGTGGGCGTGGCGTGTCTTTCGTAGTCTGCTGATGGCTGCTCTACCTCCG  
 GATCAAACAGAAAGCAAGCCAAAGGGTCAACATCTTCCACACGGTTGCACGAGCCCGAGAAGAACGCCAGG  
 GAAATAACCCAGGTACAGTCTTTGATCCAGGACACAAATGACATCAACGACATCACATACCGAGACCTGA  
 ATCTGCCCAAAGAGAAGAAGCCCGACCCCGGGCCCTGAGCCTAAACAACACACAGAATATGCAAGCAT  
 TGAGACAGGCAAAGTGCTAGGCCAGAGGATACCTCACCTATGCTGACCTGGACATGGTCCACCTCAGC  
 CGGGCACAGCCAGCCCCAAGCCTGAGCCATCTTCTCAGAGTATGCTAGTGTCCAGGTCCAGAGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230327 representing NM\_001291019  
 Red=Cloning site Green=Tags(s)

MEPAGPAPGRLGPLLLCLLLSASCFTGATGKELKVTQPEKSVSVAAGDSTVLNCTLTSLLPVGPWRWYR  
 GVGPSRLLIYSFAGEYVPRIRNVSDTTKRNMDFSIKSNVTPADAGIYYCVKFKQGSSEPDTEIQSGGG  
 TEVYVLAKPSPPEVSGPADRGIPDQKVNFTCKSHGFSRPNITLKWFKDQQLHPLETTVNP SGKNVSYNI  
 SSTVRVVLNSMDVNSKVICEVAHITLDRSPLRGIANLSNFIRVSPTVKVTQQSPTSMNQVNLTCRAERFY  
 PEDLQLIWL ENGNVSRNDTPKNLTKNTDGTNYTSLFLVNSSAHREDVVF TCQVKHDQQAITRNHTVLG  
 FAHSSDQSMQTFPDNNAATHNWNVFIGVGVACALLVLLMAALYLLRIKQKAKGSTSSTRLHEPEKNAR  
 EITQVQSLIQDTNDINDITYADLNLPEKPKPAPRAPEPNHTEYASIEETGKVPREPDTLTYADLDMVHLS  
 RAQPAPKPEPSFSEYASVQVQRK

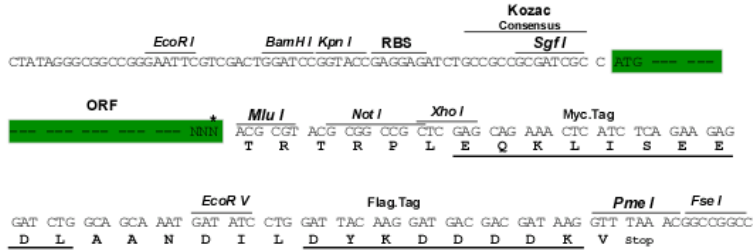
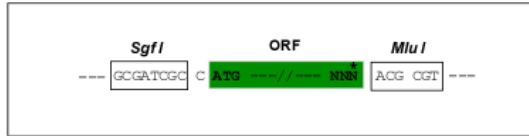
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

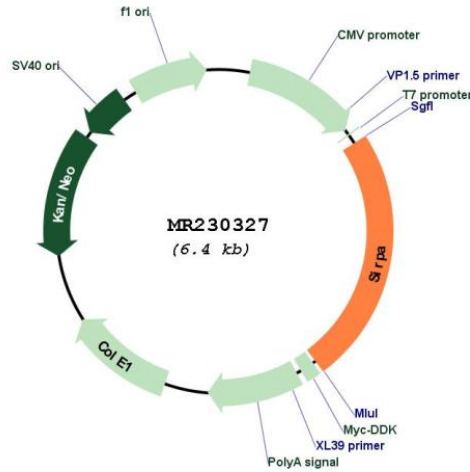
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001291019

ORF Size: 1539 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001291019.1](#), [NP\\_001277948.1](#)

**RefSeq Size:** 4043 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 19261

**UniProt ID:** [P97797](#)

**Cytogenetics:** 2 63.19 cM

**MW:** 56.9 kDa

**Gene Summary:** Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular signaling during synaptogenesis and in synaptic function. Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. Mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells (By similarity).[UniProtKB/Swiss-Prot Function]