

## Product datasheet for MR228274

### Sirpa (NM\_001291022) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sirpa (NM\_001291022) 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  
**ORF Nucleotide Sequence:** >MR228274 representing NM\_001291022  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGCCCGCCGGCCCGCCCTGGCCGCTAGGGCCGCTGCTGCTCTGCCTGCTGCTCTCCGCGTCT  
 GTTCTGTACAGATAAATGCTACCCACAACCTGGAATGTCTTCATCGGTGTGGCGTGGCGTGTGCTTT  
 GCTCGTAGTCCTGCTGATGGCTGCTCTCTACCTCCTCCGGATCAAACAGAAGAAAGCCAAGGGGTCAACA  
 TCTTCCACACGGTTGCACGAGCCCGAGAAGAACGCCAGGGAAATAACCCAGATCCAGGACACAAATGACA  
 TCAACGACATCACATACGACACCTGAATCTGCCCAAAGAGAAGAGCCCGCACCCCGGGCCCTGAGCC  
 TAACAACACACAGAATATGCAAGCATTGAGACAGGCAAAGTGCCTAGGCCAGAGGATACCCTCACCTAT  
 GCTGACCTGGACATGGTCCACCTCAGCCGGGCACGCCAGCCCCAAGCCTGAGCCATCTTTCTCAGAGT  
 ATGCTAGTGTCCAGGTCCAGAGGAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228274 representing NM\_001291022  
 Red=Cloning site Green=Tags(s)

MEPAGPAPGRLGPLLLCLLLSASCFTDNNATHNWNVFIGVGVACALLVLLMAALYLLRIKQKAKGST  
 SSTRLEHEPEKNAREITQIQDNDINDITYADLNLPKEKKPAPRAPEPNNHTEYASIEYTGKVPREDTLTY  
 ADLDMVHLSRAQPAPKPEPSFSEYASVQQRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

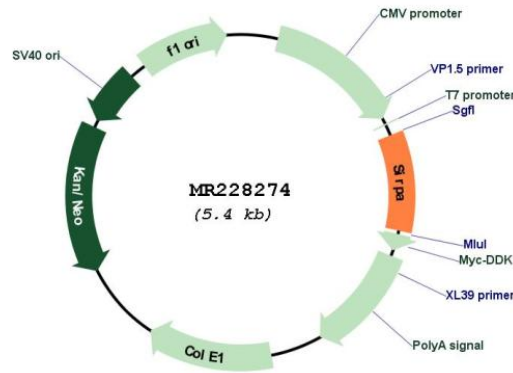


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291022

ORF Size: 516 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001291022.1</a></u> , <u><a href="#">NP_001277951.1</a></u>
<b>RefSeq Size:</b>	3020 bp
<b>RefSeq ORF:</b>	519 bp
<b>Locus ID:</b>	19261
<b>Cytogenetics:</b>	2 63.19 cM
<b>MW:</b>	19.3 kDa
<b>Gene Summary:</b>	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]