

Product datasheet for **MR227660**

Sirpa (NM_001177647) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sirpa (NM_001177647) 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: >MR227660 representing NM_001177647
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCCGCCGCCGCCCTGGCCGCTAGGGCCGCTGCTGCTCGCTGCTGCTCTCCGCGTCT
GTTTCTGTACAGGAGCCACGGGAAGGAAGTGAAGGTGACTCAGCCTGAGAAATCAGTGTCTGTTGCTGC
TGGGGATTCGACCGTTCTGAAGTCACTTTGACCTCCTTGTGGCGGTGGGACCCATTAGGTGGTACAGA
GGAGTAGGGCCAAGCCGGCTGTTGATCTACAGTTTCGCAGGAGAATACGTTCTCGAATTAGAAATGTTT
CAGATACTACTAAGAGAAACAATATGGACTTTTCCATCCGTATCAGTAATGTCACCCAGCAGATGCTGG
CATCTACTACTGTGTGAAGTTCAGAAAGGATCATCAGAGCCTGACACAGAAATACAATCTGGAGGGGA
ACAGAGGTCTATGTAAGTTCAGAAAGGATCATCAGAGCCTGACACAGAAATACAATCTGGAGGGGA
GTGCTTTGCTCGTAGTCTGCTGATGGCTGCTCTACCTCCTCCGGATCAAACAGAAAGAAAGCCAAAGG
GTCAACATCTTCCACACGGTTGCACGAGCCGAGAAGAAGCCAGGAAATAACCCAGATCCAGGACACA
AATGACATCAACGACATCACATACGACACCTGAATCTGCCAAAGAGAAGAAGCCCGCACCCCGGGCCC
CTGAGCCTAACCAACACAGAAATATGCAAGCATTGAGACAGGCAAAGTGCCTAGGCCAGAGGATACCTC
CACCTATGCTGACTGGACATGGTCCACCTCAGCCGGGCACAGCCAGCCCAAGCCTGAGCCATCTTTC
TCAGAGTATGCTAGTGTCCAGGTCAGAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR227660 representing NM_001177647
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MEPAGPAPGR LGPLLLCLLLSASCFC TGATGKELKVTQPEKSVSVAAGDSTVLNCTLTSLLPVGP I RWYR
 GVGPSRLLIYSFAGEYVPRIRNVSDTTKRNNMDF SIRISNVTPADAGIYCVKFQKGSSEPDTEIQSGGG
 TEVYVLDNNATHNWNVF IGVGVACALLVLLMAALYLLRIKQKKAKGSTSSTRLHEPEKNAREITQIQDT
 NDINDITYADLNLPKEKKPAPRAPEPNNHTEYAS IETGKVPREDTLTYADLDMVHL SRAQPAPKPEPSF
 SEYASVQVQRK

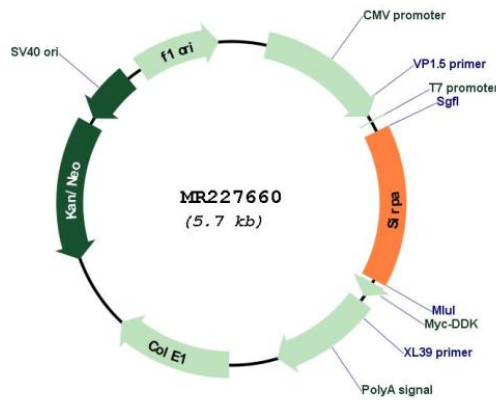
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177647

ORF Size: 873 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:	<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:	NM_001177647.2 , NP_001171118.1
RefSeq Size:	3353 bp
RefSeq ORF:	876 bp
Locus ID:	19261
UniProt ID:	P97797
Cytogenetics:	2 63.19 cM
MW:	32.2 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]