

Product datasheet for **TR501799**

Sirpa Mouse shRNA Plasmid (Locus ID 19261)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Sirpa Mouse shRNA Plasmid (Locus ID 19261)
Locus ID:	19261
Synonyms:	AI835480; Bit; CD172a; P84; Ptpns1; SHP-1; SHPS-1; SIRP
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Sirpa - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 19261). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC062197 , NM_001177646 , NM_001177647 , NM_001291019 , NM_001291020 , NM_001291021 , NM_001291022 , NM_007547 , NM_001355158 , NM_001355160 , NM_001177646.1 , NM_007547.1 , NM_007547.2 , NM_007547.3 , NM_007547.4 , NM_001177647.1 , NM_001177647.2 , NM_001291022.1 , NM_001291021.1 , NM_001291019.1 , NM_001291020.1 , BC025886 , BM899883
UniProt ID:	P97797
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).