

## Product datasheet for **TF501802**

### Ptprc Mouse shRNA Plasmid (Locus ID 19264)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Ptprc Mouse shRNA Plasmid (Locus ID 19264)
Locus ID:	19264
Synonyms:	B220; Cd45; CD45R; L-CA; loc; Ly-5; Lyt-4; T200
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ptprc - Mouse, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 19264). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001111316</a> , <a href="#">NM_001268286</a> , <a href="#">NM_011210</a> , <a href="#">NM_001111316.1</a> , <a href="#">NM_001111316.2</a> , <a href="#">NM_011210.1</a> , <a href="#">NM_011210.2</a> , <a href="#">NM_011210.3</a> , <a href="#">NM_011210.4</a> , <a href="#">NM_001268286.1</a> , <a href="#">BC028512</a> , <a href="#">BC084684</a> , <a href="#">BC131655</a> , <a href="#">BC167212</a> , <a href="#">BM239381</a>
UniProt ID:	<a href="#">P06800</a>
Summary:	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN (By similarity). Dephosphorylates LYN, and thereby modulates LYN activity. [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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](mailto: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).