

Product datasheet for TR511658

Cd163 Mouse shRNA Plasmid (Locus ID 93671)

Product data:

Product Type: shRNA Plasmids

Product Name: Cd163 Mouse shRNA Plasmid (Locus ID 93671)

Locus ID: 9367

Synonyms: CD163v2; CD163v3

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: Cd163 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

93671). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 001170395, NM 053094, NM 001170395.1, NM 053094.1, NM 053094.2, BC144848,

BC145793

UniProt ID: Q2VLH6

Summary: Involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by

macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative

damage. May play a role in the uptake and recycling of iron, via endocytosis of

hemoglobin/haptoglobin and subsequent breakdown of heme. Binds

hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1 (By similarity).

[UniProtKB/Swiss-Prot Function]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

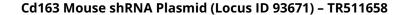
be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.



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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).