

Product datasheet for **TR309664**

Serum Amyloid A (SAA1) Human shRNA Plasmid Kit (Locus ID 6288)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Serum Amyloid A (SAA1) Human shRNA Plasmid Kit (Locus ID 6288)
Locus ID:	6288
Synonyms:	PIG4; SAA; SAA2; TP53I4
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SAA1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 6288). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC007022 , NM_000331 , NM_001178006 , NM_199161 , NM_199161.1 , NM_199161.3 , NM_199161.4 , NM_000331.1 , NM_000331.2 , NM_000331.3 , NM_000331.4 , NM_000331.5 , NM_001178006.1 , NM_001178006.2 , BC007022.1 , BC105796 , BC105796.1 , NM_199161.5
UniProt ID:	P02735
Summary:	This gene encodes a member of the serum amyloid A family of apolipoproteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a major acute phase protein that is highly expressed in response to inflammation and tissue injury. This protein also plays an important role in HDL metabolism and cholesterol homeostasis. High levels of this protein are associated with chronic inflammatory diseases including atherosclerosis, rheumatoid arthritis, Alzheimer's disease and Crohn's disease. This protein may also be a potential biomarker for certain tumors. Finally, antimicrobial activity against <i>S. aureus</i> and <i>E. coli</i> resides in the N-terminal portion of the mature protein. Alternate splicing results in multiple transcript variants that encode the same protein. A pseudogene of this gene is found on chromosome 11. [provided by RefSeq, Jul 2020]
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).