

Product datasheet for **TR303338**

MASP1 Human shRNA Plasmid Kit (Locus ID 5648)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MASP1 Human shRNA Plasmid Kit (Locus ID 5648)
Locus ID:	5648
Synonyms:	3MC1; CRARF; CRARF1; MAP-1; MAP1; MAP44; MASP; MASP-3; MASP3; PRSS5; RaRF
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MASP1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5648). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001031849 , NM_001879 , NM_139125 , NR_033519 , NM_001031849.1 , NM_001031849.2 , NM_001879.1 , NM_001879.2 , NM_001879.3 , NM_001879.4 , NM_001879.5 , NM_139125.1 , NM_139125.2 , NM_139125.3 , BC106945 , BC039724 , BC106946 , NM_001031849.3 , NM_001879.6 , NM_139125.4
UniProt ID:	P48740
Summary:	This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]



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- 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](#).
- 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).