

## Product datasheet for **TL316679**

### 26S proteasome non ATPase regulatory subunit 12 (PSMD12) Human shRNA Plasmid Kit (Locus ID 5718)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	26S proteasome non ATPase regulatory subunit 12 (PSMD12) Human shRNA Plasmid Kit (Locus ID 5718)
Locus ID:	5718
Synonyms:	p55; Rpn5; STISS
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PSMD12 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5718). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001316341</a> , <a href="#">NM_002816</a> , <a href="#">NM_174871</a> , <a href="#">NM_002816.1</a> , <a href="#">NM_002816.2</a> , <a href="#">NM_002816.4</a> , <a href="#">NM_174871.1</a> , <a href="#">NM_174871.2</a> , <a href="#">NM_174871.3</a> , <a href="#">BC019062</a> , <a href="#">BC019062.2</a> , <a href="#">BC065826</a> , <a href="#">NM_174871.4</a> , <a href="#">NM_002816.5</a>
UniProt ID:	<a href="#">O00232</a>
Summary:	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]



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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](mailto: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](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).