

## Product datasheet for **TL316483V**

### CD20 (MS4A1) Human shRNA Lentiviral Particle (Locus ID 931)

#### Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	CD20 (MS4A1) Human shRNA Lentiviral Particle (Locus ID 931)
Locus ID:	931
Synonyms:	B1; Bp35; CD20; CVID5; FMC7; LEU-16; MS4A2; S7
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	MS4A1 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
RefSeq:	<a href="#">NM_021950</a> , <a href="#">NM_152866</a> , <a href="#">NM_152867</a> , <a href="#">NM_021950.1</a> , <a href="#">NM_021950.2</a> , <a href="#">NM_021950.3</a> , <a href="#">NM_152866.1</a> , <a href="#">NM_152866.2</a> , <a href="#">BC002807</a> , <a href="#">BC002807.2</a> , <a href="#">NM_152866.3</a>
UniProt ID:	<a href="#">P11836</a>
Summary:	This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein. [provided by RefSeq, Jul 2008]
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> .

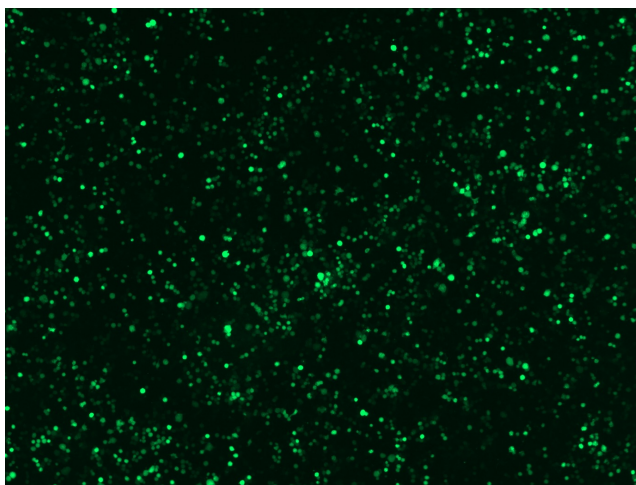


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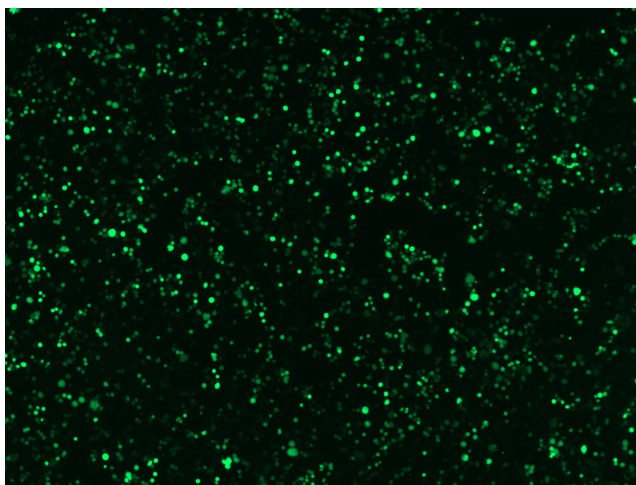
**Performance  
Guaranteed:**

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.

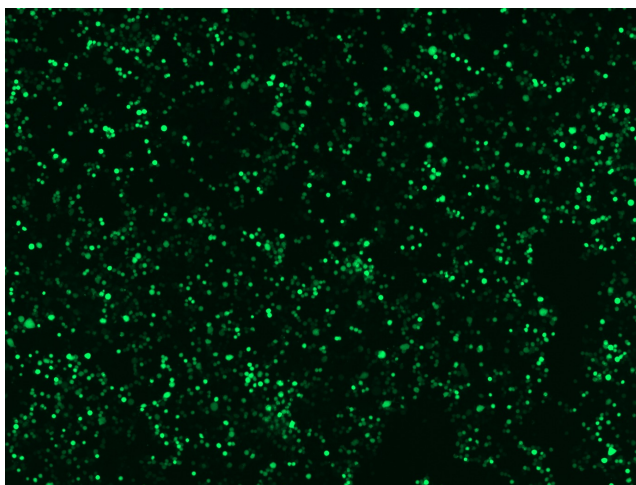
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

**Product images:**

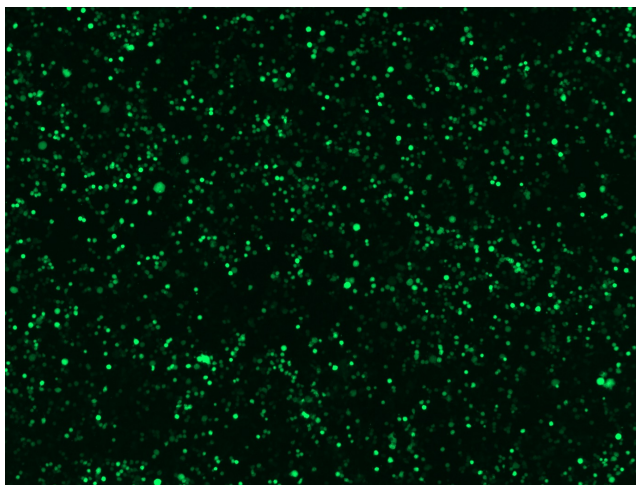
GFP signal was observed under microscope at 48 hours after transduction of TL316483A virus into HEK293 cells. TL316483A virus was prepared using lenti-shRNA TL316483A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL316483B virus into HEK293 cells. TL316483B virus was prepared using lenti-shRNA TL316483B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL316483C] virus into HEK293 cells. [TL316483C] virus was prepared using lenti-shRNA [TL316483C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL316483D] virus into HEK293 cells. [TL316483D] virus was prepared using lenti-shRNA [TL316483D] and [TR30037] packaging kit.