

## Product datasheet for **TL320391V**

### Integrin alpha 4 (ITGA4) Human shRNA Lentiviral Particle (Locus ID 3676)

#### Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Integrin alpha 4 (ITGA4) Human shRNA Lentiviral Particle (Locus ID 3676)
Locus ID:	3676
Synonyms:	CD49D; IA4
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	ITGA4 - 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_000885</a> , <a href="#">NM_001316312</a> , <a href="#">NM_000885.1</a> , <a href="#">NM_000885.2</a> , <a href="#">NM_000885.3</a> , <a href="#">NM_000885.4</a> , <a href="#">NM_000885.5</a> , <a href="#">BC016671</a> , <a href="#">BC055419</a> , <a href="#">BC080190</a> , <a href="#">BC146277</a> , <a href="#">BC156712</a> , <a href="#">NM_000885.6</a>
UniProt ID:	<a href="#">P13612</a>
Summary:	The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 4 subunit. This subunit associates with a beta 1 or beta 7 subunit to form an integrin that may play a role in cell motility and migration. This integrin is a therapeutic target for the treatment of multiple sclerosis, Crohn's disease and inflammatory bowel disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]
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> .

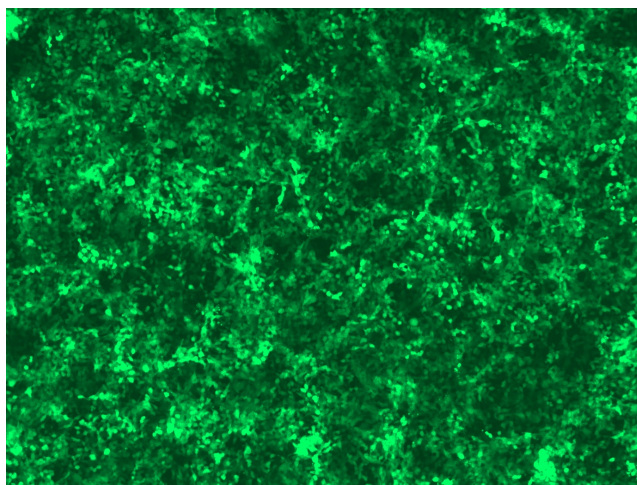


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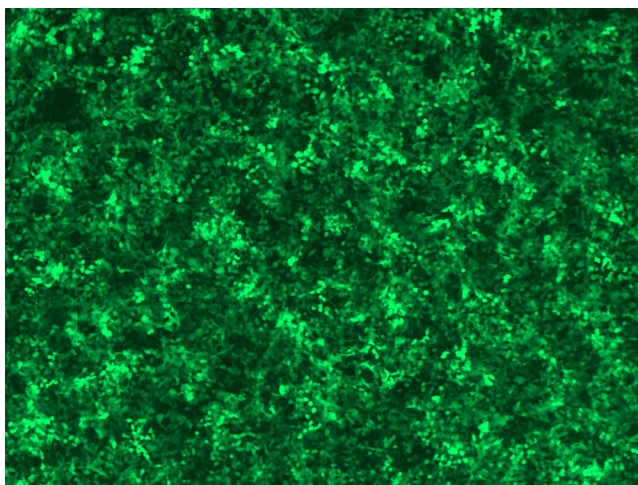
**Performance  
Guaranteed:**

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.

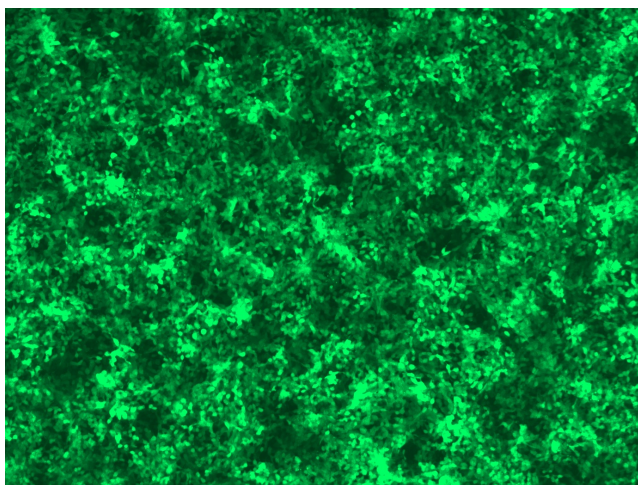
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). 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:**

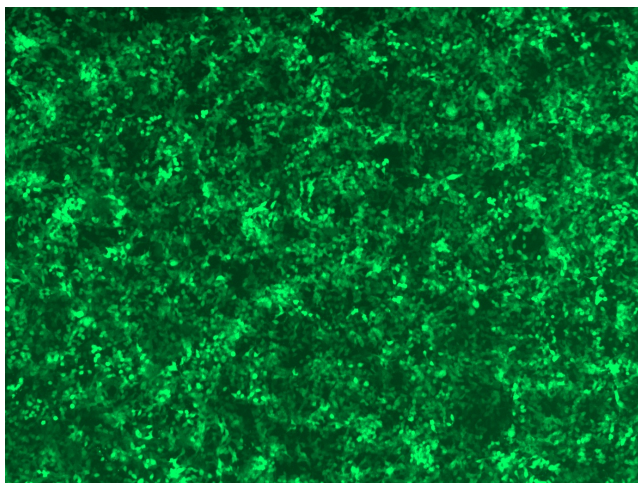
GFP signal was observed under microscope at 48 hours after transduction of TL320391A virus into HEK293 cells. TL320391A virus was prepared using lenti-shRNA TL320391A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL320391B virus into HEK293 cells. TL320391B virus was prepared using lenti-shRNA TL320391B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320391C] virus into HEK293 cells. [TL320391C] virus was prepared using lenti-shRNA [TL320391C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320391D] virus into HEK293 cells. [TL320391D] virus was prepared using lenti-shRNA [TL320391D] and [TR30037] packaging kit.