

## Product datasheet for **TL314080**

### CD44 Human shRNA Plasmid Kit (Locus ID 960)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CD44 Human shRNA Plasmid Kit (Locus ID 960)
Locus ID:	960
Synonyms:	CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CD44 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 960). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_000610</a> , <a href="#">NM_001001389</a> , <a href="#">NM_001001390</a> , <a href="#">NM_001001391</a> , <a href="#">NM_001001392</a> , <a href="#">NM_001202555</a> , <a href="#">NM_001202556</a> , <a href="#">NM_001202557</a> , <a href="#">NM_001001389.1</a> , <a href="#">NM_001001390.1</a> , <a href="#">NM_001001392.1</a> , <a href="#">NM_000610.1</a> , <a href="#">NM_000610.2</a> , <a href="#">NM_000610.3</a> , <a href="#">NM_001001391.1</a> , <a href="#">NM_001202557.1</a> , <a href="#">NM_001202556.1</a> , <a href="#">NM_001202555.1</a> , <a href="#">BC004372</a> , <a href="#">BC004372.1</a> , <a href="#">BC052287</a> , <a href="#">BC067348</a> , <a href="#">NM_001202557.2</a> , <a href="#">NM_001202556.2</a> , <a href="#">NM_000610.4</a> , <a href="#">NM_001001390.2</a> , <a href="#">NM_001001391.2</a> , <a href="#">NM_001202555.2</a> , <a href="#">NM_001001392.2</a>
UniProt ID:	<a href="#">P16070</a>
Summary:	The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul 2008]



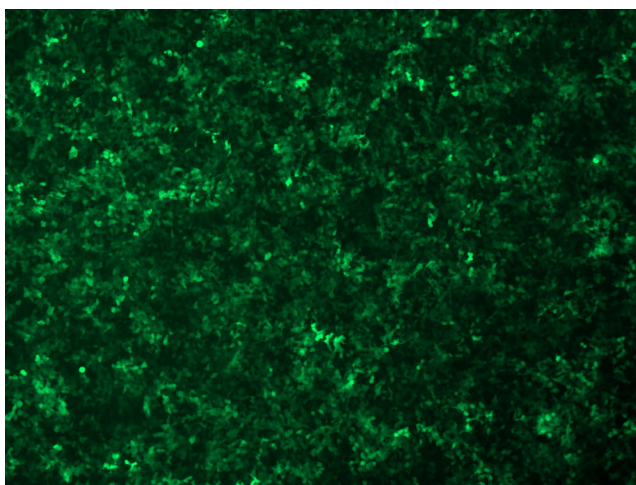
[View online »](#)

**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](#).

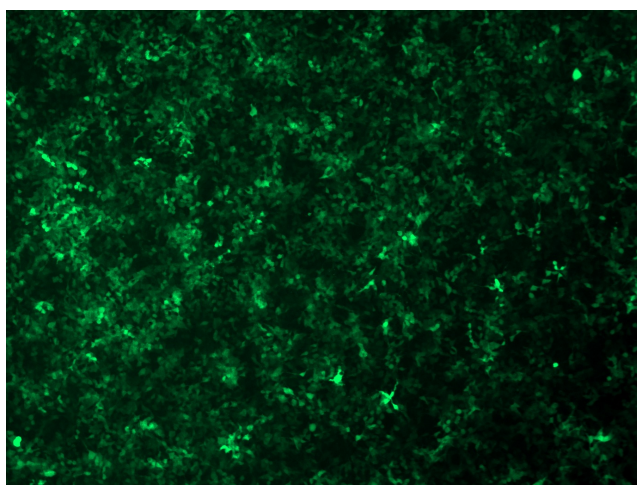
**Performance Guaranteed:** OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection 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).

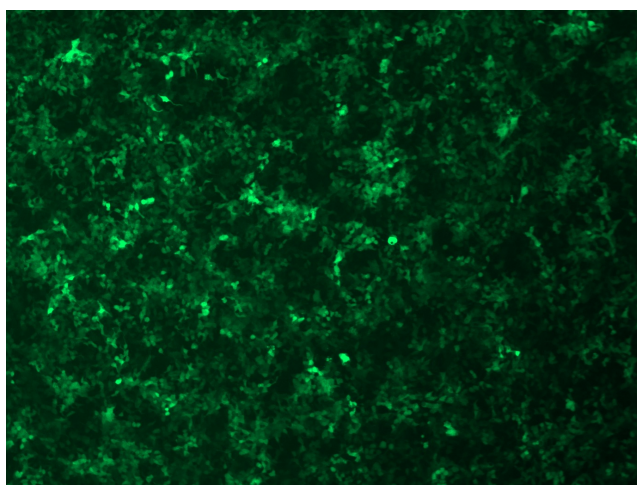
### Product images:



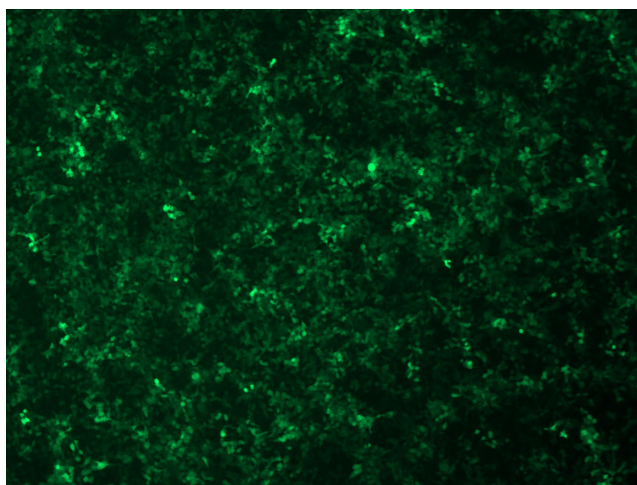
GFP signal was observed under microscope at 48 hours after transduction of TL314080A virus into HEK293 cells. TL314080A virus was prepared using lenti-shRNA TL314080A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL314080B virus into HEK293 cells. TL314080B virus was prepared using lenti-shRNA TL314080B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314080C] virus into HEK293 cells. [TL314080C] virus was prepared using lenti-shRNA [TL314080C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314080D] virus into HEK293 cells. [TL314080D] virus was prepared using lenti-shRNA [TL314080D] and [TR30037] packaging kit.