

Product datasheet for **TL314004**

CEACAM5 Human shRNA Plasmid Kit (Locus ID 1048)

Product data:

Product Type:	shRNA Plasmids
Product Name:	CEACAM5 Human shRNA Plasmid Kit (Locus ID 1048)
Locus ID:	1048
Synonyms:	CD66e; CEA
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CEACAM5 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1048). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001291484 , NM_001308398 , NM_004363 , NM_004363.1 , NM_004363.2 , NM_004363.3 , NM_004363.4 , NM_004363.5 , NM_001291484.1 , NM_001291484.2 , BC034671 , BC034671.1 , NM_001291484.3 , NM_004363.6
UniProt ID:	P06731
Summary:	This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .

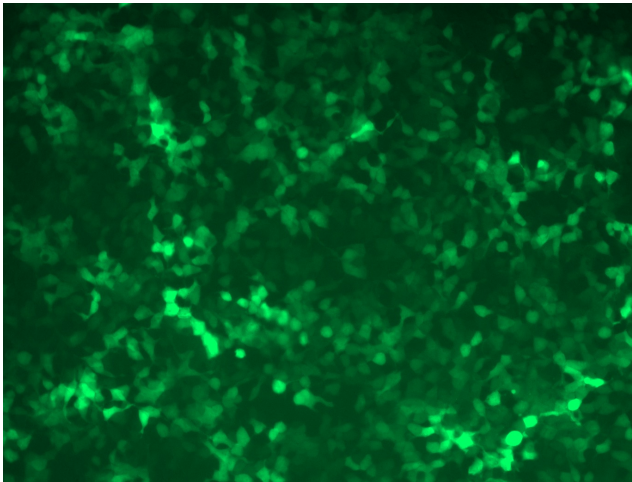


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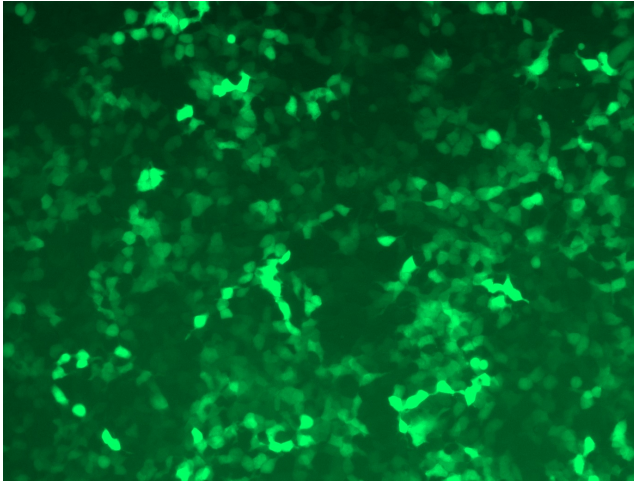
**Performance
Guaranteed:**

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.

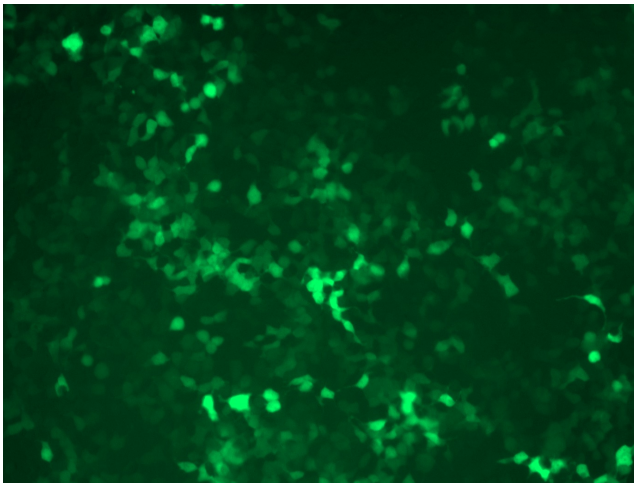
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

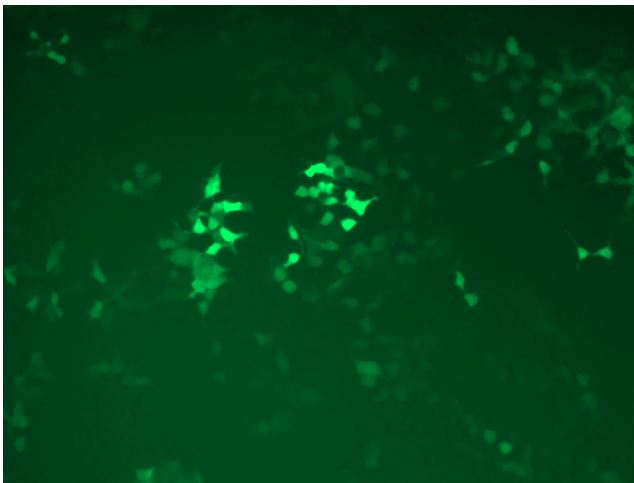
GFP signal was observed under microscope at 48 hours after transduction of TL314004A virus into HEK293 cells. TL314004A virus was prepared using lenti-shRNA TL314004A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL314004B virus into HEK293 cells. TL314004B virus was prepared using lenti-shRNA TL314004B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314004C] virus into HEK293 cells. [TL314004C] virus was prepared using lenti-shRNA [TL314004C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314004D] virus into HEK293 cells. [TL314004D] virus was prepared using lenti-shRNA [TL314004D] and [TR30037] packaging kit.