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Product datasheet for TL301177V

TCF7 Human shRNA Lentiviral Particle (Locus ID 6932)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	TCF7 Human shRNA Lentiviral Particle (Locus ID 6932)
Locus ID:	6932
Synonyms:	TCF-1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	TCF7 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001134851, NM_001134852, NM_003202, NM_201632, NM_201633, NM_201634, NM_213648, NR_033449, NM_001346425, NM_001346450, NM_201632.1, NM_201632.2, NM_201632.3, NM_201632.4, NM_213648.1, NM_213648.2, NM_213648.3, NM_213648.4, NM_003202.1, NM_003202.2, NM_003202.3, NM_003202.4, NM_201634.1, NM_201634.2, NM_201634.3, NM_201634.4, NM_001134851.1, NM_001134851.2, NM_001134851.3, NM_001134852.1, NM_201633.1, BC048769, BC048769.1, BC072023, NM_001366502, NM_201634.5, NM_213648.5, NM_003202.5
UniProt ID:	P36402
Summary:	This gene encodes a member of the T-cell factor/lymphoid enhancer-binding factor family of high mobility group (HMG) box transcriptional activators. This gene is expressed predominantly in T-cells and plays a critical role in natural killer cell and innate lymphoid cell development. The encoded protein forms a complex with beta-catenin and activates transcription through a Wnt/beta-catenin signaling pathway. Mice with a knockout of this gene are viable and fertile, but display a block in T-lymphocyte differentiation. Alternative splicing results in multiple transcript variants. Naturally-occurring isoforms lacking the N-terminal beta-catenin interaction domain may act as dominant negative regulators of Wnt signaling. [provided by RefSeq, Oct 2016]
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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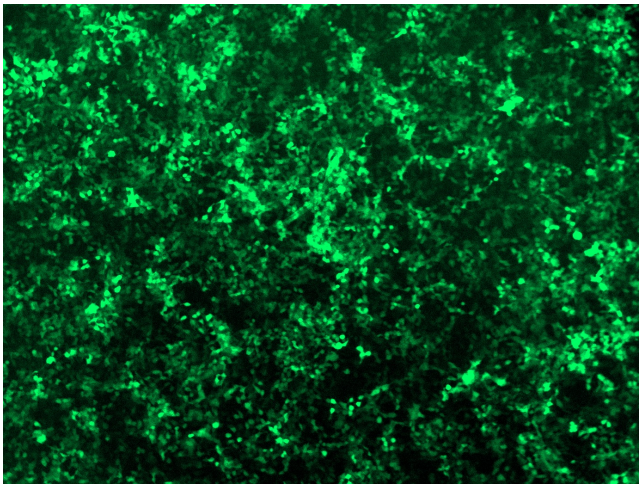
Performance Guaranteed:

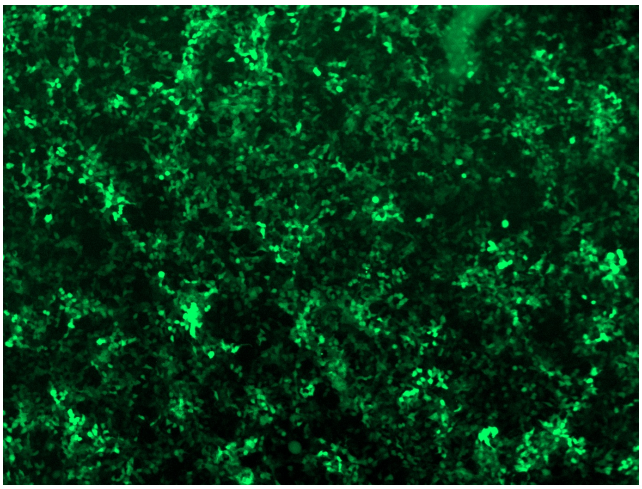
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

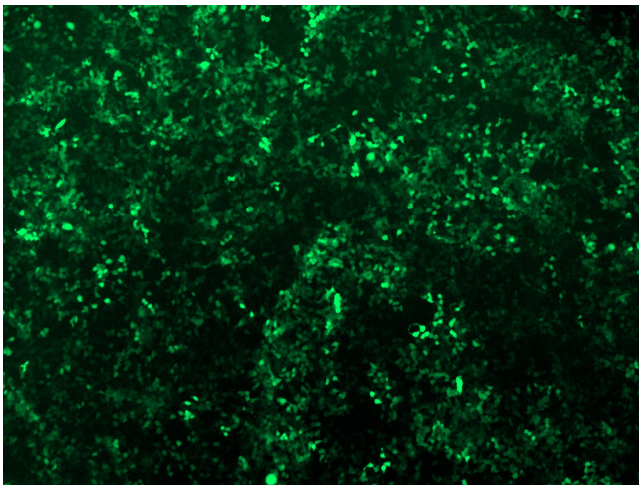
Product images:



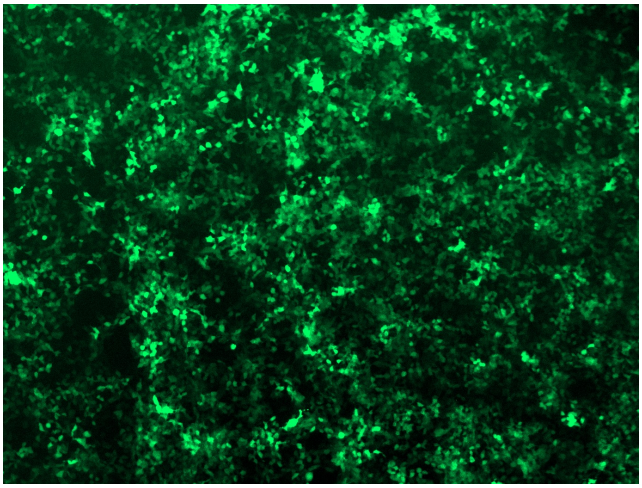
GFP signal was observed under microscope at 48 hours after transduction of TL301177A virus into HEK293 cells. TL301177A virus was prepared using lenti-shRNA TL301177A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL301177B virus into HEK293 cells. TL301177B virus was prepared using lenti-shRNA TL301177B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL301177C] virus into HEK293 cells. [TL301177C] virus was prepared using lenti-shRNA [TL301177C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL301177D] virus into HEK293 cells. [TL301177D] virus was prepared using lenti-shRNA [TL301177D] and [TR30037] packaging kit.