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Product datasheet for TL309958V

RAG2 Human shRNA Lentiviral Particle (Locus ID 5897)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	RAG2 Human shRNA Lentiviral Particle (Locus ID 5897)
Locus ID:	5897
Synonyms:	RAG-2
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	RAG2 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_000536, NM_001243785, NM_001243786, NR_033666, NM_000536.1, NM_000536.2, NM_000536.3, NM_001243785.1, NM_001243786.1, BC022397, BC022397.1, BM457214, BM463455, NM_001243785.2
UniProt ID:	P55895
Summary:	This gene encodes a protein that is involved in the initiation of V(D)J recombination during B and T cell development. This protein forms a complex with the product of the adjacent recombination activating gene 1, and this complex can form double-strand breaks by cleaving DNA at conserved recombination signal sequences. The recombination activating gene 1 component is thought to contain most of the catalytic activity, while the N-terminal of the recombination activating gene 2 component is thought to form a six-bladed propeller in the active core that serves as a binding scaffold for the tight association of the complex with DNA. A C-terminal plant homeodomain finger-like motif in this protein is necessary for interactions with chromatin components, specifically with histone H3 that is trimethylated at lysine 4. Mutations in this gene cause Omenn syndrome, a form of severe combined immunodeficiency associated with autoimmune-like symptoms. [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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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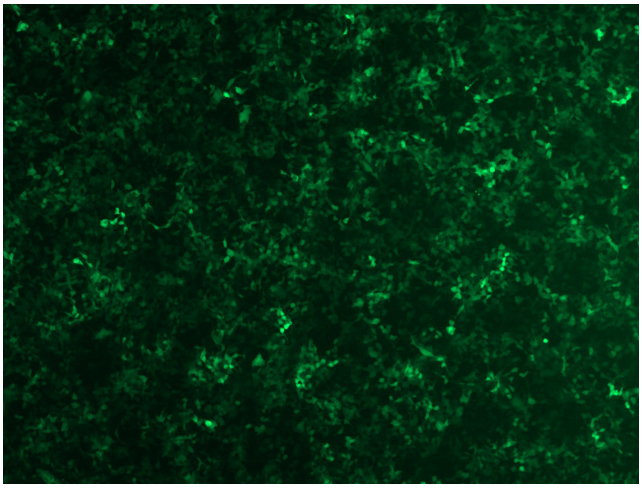
Performance Guaranteed:

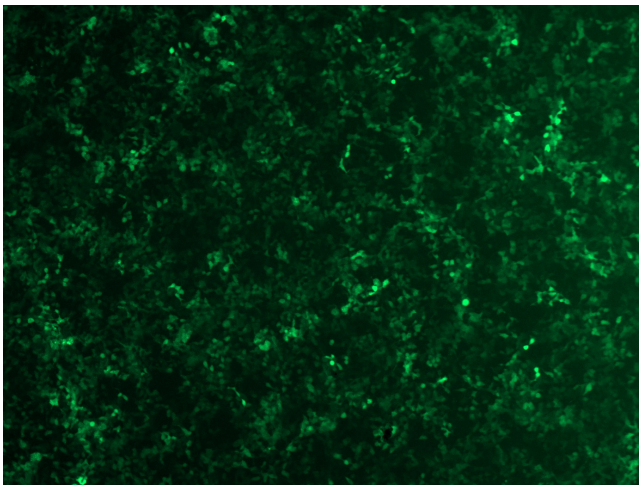
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved.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

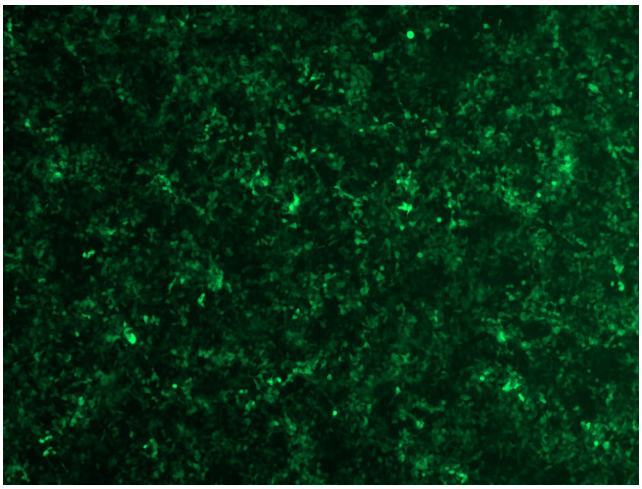
Product images:



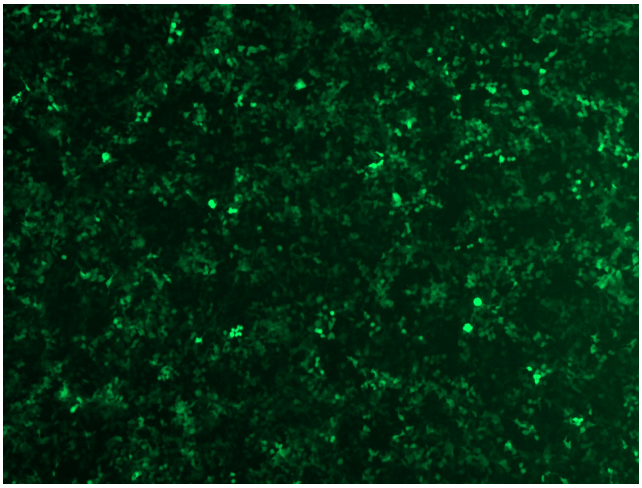
GFP signal was observed under microscope at 48 hours after transduction of TL309958A virus into HEK293 cells. TL309958A virus was prepared using lenti-shRNA TL309958A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL309958B virus into HEK293 cells. TL309958B virus was prepared using lenti-shRNA TL309958B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309958C] virus into HEK293 cells. [TL309958C] virus was prepared using lenti-shRNA [TL309958C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309958D] virus into HEK293 cells. [TL309958D] virus was prepared using lenti-shRNA [TL309958D] and [TR30037] packaging kit.