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Product datasheet for TL302986V

NEIL2 Human shRNA Lentiviral Particle (Locus ID 252969)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	NEIL2 Human shRNA Lentiviral Particle (Locus ID 252969)
Locus ID:	252969
Synonyms:	NEH2; NEI2
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	NEIL2 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001135746, NM_001135747, NM_001135748, NM_145043, NM_001349439, NM_001349440, NM_001349441, NM_001349442, NR_146180, NR_146181, NR_146182, NM_145043.1, NM_145043.2, NM_145043.3, NM_001135748.1, NM_001135748.2, NM_001135746.1, NM_001135746.2, NM_001135747.1, NM_001135747.2, BC013952, BC013952.2, BC013964, BC045822, NM_001135747.3, NM_001135748.3, NM_001135746.3
UniProt ID:	Q969S2
Summary:	This gene encodes a member of the Fpg/Nei family of DNA glycosylases. These glycosylases initiate the first step in base excision repair by cleaving oxidatively damaged bases and introducing a DNA strand break via their abasic site lyase activity. This enzyme is primarily associated with DNA repair during transcription and acts prefentially on cytosine-derived lesions, particularly 5-hydroxyuracil and 5-hydroxycytosine. It contains an N-terminal catalytic domain, a hinge region, and a C-terminal DNA-binding domain with helix-two-turn-helix and zinc finger motifs. This enzyme interacts with the X-ray cross complementing factor 1 scaffold protein as part of a multi-protein DNA repair complex. A pseudogene of this gene has been identified. [provided by RefSeq, Mar 2017]
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).