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Product datasheet for RC227916L4V

NEIL2 (NM_001135747) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	NEIL2 (NM_001135747) Human Tagged ORF Clone Lentiviral Particle
Symbol:	NEIL2
Synonyms:	NEH2; NEI2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001135747
ORF Size:	813 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC227916).`
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_001135747.1
RefSeq Size:	2062 bp
RefSeq ORF:	816 bp
Locus ID:	252969
UniProt ID:	Q969S2
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair

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MW: 29.9 kDa

Gene 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]