

Product datasheet for RC201732L4V

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

APE1 (APEX1) (NM_001641) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: APE1 (APEX1) (NM_001641) Human Tagged ORF Clone Lentiviral Particle

Symbol: APE¹

Synonyms: APE; APE1; APEN; APEX; APX; HAP1; REF1

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_001641

ORF Size: 954 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC201732).

OTI Disclaimer:

Sequence:

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.

RefSeg: NM 001641.2

 RefSeq Size:
 1574 bp

 RefSeq ORF:
 957 bp

 Locus ID:
 328

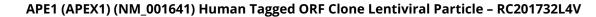
 UniProt ID:
 P27695

 Cytogenetics:
 14q11.2

Domains: Exo_endo_phos

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors







Protein Pathways: Base excision repair

MW: 35.4 kDa

Gene Summary: The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX

endonuclease, a DNA repair enzyme with apurinic/apyrimidinic (AP) activity. Such AP activity sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. The AP sites are the most

frequent pre-mutagenic lesions that can prevent normal DNA replication. Splice variants have been found for this gene; all encode the same protein. Disruptions in the biological functions

related to APEX are associated with many various malignancies and neurodegenerative

diseases.[provided by RefSeq, Dec 2019]