

Product datasheet for RC201546L4

OriGene Technologies, Inc.

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Vimentin (VIM) (NM_003380) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Vimentin (VIM) (NM_003380) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Vimentin

Mammalian Cell Puromycin

Selection:

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

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

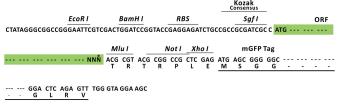
The ORF insert of this clone is exactly the same as(RC201546).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_003380 **ORF Size:** 1398 bp



Vimentin (VIM) (NM_003380) Human Tagged Lenti ORF Clone - RC201546L4

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.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

ES Cell Differentiation/IPS

RefSeq: <u>NM 003380.2</u>

RefSeq Size: 1847 bp
RefSeq ORF: 1401 bp
Locus ID: 7431
UniProt ID: P08670

Cytogenetics: 10p13

Domains: filament, filament_head

MW: 53.5 kDa

Protein Families:

Gene Summary: This gene encodes a type III intermediate filament protein. Intermediate filaments, along with

microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing

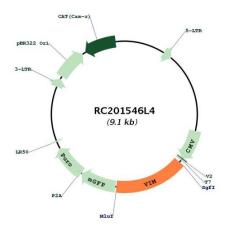
cytoskeletal interactions. This protein is involved in neuritogenesis and cholesterol transport

and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to this protein on the host cell surface. Mutations in this gene are associated with

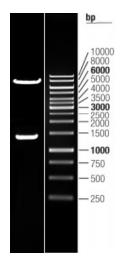
congenital cataracts in human patients. [provided by RefSeq, Aug 2017]



Product images:



Circular map for RC201546L4



Double digestion of RC201546L4 using Sgfl and Mlul $\,$