

Product datasheet for RC227470L2

OriGene Technologies, Inc.

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CD51 (ITGAV) (NM_001144999) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CD51 (ITGAV) (NM_001144999) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: CD51

Synonyms: CD51; MSK8; VNRA; VTNR

Mammalian Cell None

Selection:

Vector:pLenti-C-mGFP (PS100071)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC227470).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001144999

ORF Size: 3006 bp



CD51 (ITGAV) (NM_001144999) Human Tagged Lenti ORF Clone - RC227470L2

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.

RefSeq: <u>NM 001144999.1, NP 001138471.1</u>

 RefSeq ORF:
 3009 bp

 Locus ID:
 3685

 UniProt ID:
 P06756

 Cytogenetics:
 2q32.1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs),

Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hypertrophic

cardiomyopathy (HCM), Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung

cancer

MW: 111 kDa

Gene Summary: The product of this gene belongs to the integrin alpha chain family. Integrins are

heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit

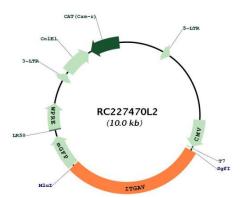
that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha V subunit. This subunit associates with beta 1, beta 3, beta 5, beta 6 and beta 8 subunits. The heterodimer consisting of alpha V and beta 3 subunits is also known as the vitronectin receptor. This integrin may regulate angiogenesis and cancer progression. Alternative splicing

results in multiple transcript variants. Note that the integrin alpha 5 and integrin alpha V

subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015]



Product images:



Circular map for RC227470L2