

Product datasheet for RC200242L3

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

HRASLS3 (PLA2G16) (NM_007069) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HRASLS3 (PLA2G16) (NM 007069) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: HRASLS3

Synonyms: AdPLA; H-REV107; H-REV107-1; HRASLS3; HREV107; HREV107-1; HREV107-3; HRSL3; PLA2G16;

PLAAT-3

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

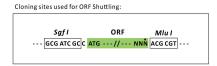
ORF Nucleotide

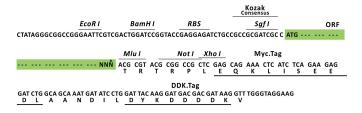
The ORF insert of this clone is exactly the same as(RC200242).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM 007069

ORF Size: 486 bp





HRASLS3 (PLA2G16) (NM_007069) Human Tagged Lenti ORF Clone - RC200242L3

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 007069.1</u>

RefSeq Size: 1070 bp RefSeq ORF: 489 bp

Locus ID: 11145 UniProt ID: <u>P53816</u>

Cytogenetics: 11q12.3-q13.1

Domains: NC

Protein Families: Druggable Genome, Transmembrane

MW: 17.9 kDa

Gene Summary: Exhibits both phospholipase A1/2 and acyltransferase activities (PubMed:19615464,

PubMed:19047760, PubMed:22825852, PubMed:22605381, PubMed:26503625). Shows

phospholipase A1 (PLA1) and A2 (PLA2) activity, catalyzing the calcium-independent release of

fatty acids from the sn-1 or sn-2 position of glycerophospholipids (PubMed:19615464, PubMed:19047760, PubMed:22825852, PubMed:22605381, PubMed:22923616). For most substrates, PLA1 activity is much higher than PLA2 activity (PubMed:19615464). Shows Oacyltransferase activity, catalyzing the transfer of a fatty acyl group from glycerophospholipid

to the hydroxyl group of lysophospholipid (PubMed:19615464). Shows N-acyltransferase activity, catalyzing the calcium-independent transfer of a fatty acyl group at the sn-1 position of phosphatidylcholine (PC) and other glycerophospholipids to the primary amine of phosphatidylethanolamine (PE), forming N-acylphosphatidylethanolamine (NAPE), which

serves as precursor for N-acylethanolamines (NAEs) (PubMed:19615464, PubMed:19047760, PubMed:22825852, PubMed:22605381). Exhibits high N-acyltransferase activity and low

phospholipase A1/2 activity (PubMed:22825852).[UniProtKB/Swiss-Prot Function]