

## Product datasheet for **RG200242**

### HRASLS3 (PLA2G16) (NM\_007069) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HRASLS3 (PLA2G16) (NM\_007069) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HRASLS3  
**Synonyms:** AdPLA; H-REV107; H-REV107-1; HRASLS3; HREV107; HREV107-1; HREV107-3; HRSL3; PLA2G16; PLAAT-3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200242 representing NM\_007069  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGTGCGCCATTCCAGAGCCTAAGCCTGGAGACCTGATTGAGATTTTCGCCCTTTCTACAGACACT  
GGGCCATCTATGTTGGCGATGGATATGTGGTTCATCTGGCCCTCCAAGTGAGGTCGCAGGAGCTGGTGC  
AGCCAGTGTATGTCGGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTGCTGTATGATGTGGCCGGG  
AGTGACAAGTACCAGGTCAACAACAACATGATGACAAGTACTCGCCGCTGCCCTGCAGCAAAATCATCC  
AGCGGGCGGAGGAGCTGGTGGGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAAGTGCAGCACTTTGT  
GAATGAGCTGCGCTATGGAGTCGCCCGCAGTGACCAGGTGACAGATGTCATCATCGCTGCAAGCGTTGCA  
GGAATGGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAAAAGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200242 representing NM\_007069  
Red=Cloning site Green=Tags(s)

MRAPIPEPKPGDLIEIFRPFYRHWAIYVGDGYVHLAPPSEVAGAGAASVMSALTDKAIYKCELLYDVAG  
SDKYQVNNKHDDKYSPLPCSKIIQRAEELVGQEVLYKLTSENCEHFVNELRYGVARSQVDRDVIIAASVA  
GMGLAAMSLIGVMFSRNKRQKQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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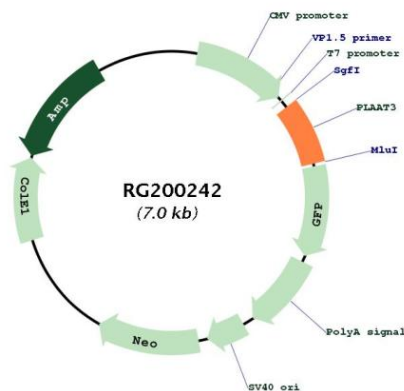
**Cytogenetics:** 11q12.3-q13.1

**Domains:** NC

**Protein Families:** Druggable Genome, Transmembrane

**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 O-acyltransferase 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]

**Product images:**



Circular map for RG200242