

## Product datasheet for RC225152

### HRASLS3 (PLA2G16) (NM\_001128203) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HRASLS3 (PLA2G16) (NM_001128203) Human Tagged 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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225152 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCGTGCGCCCATTCAGAGCCTAAGCCTGGAGACCTGATTGAGATTTTCGCCCTTTCTACAGACACT  
GGGCCATCTATGTTGGCGATGGATATGTGGTTCATCTGGCCCTCCAAGTGAGGTCGCAGGAGCTGGTGC  
AGCCAGTGTCATGTCCGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTGCTGTATGATGTGGCCGGG  
AGTGACAAGTACCAGGTCAACAACAAACATGATGACAAGTACTCGCCGCTGCCCTGCAGCAAAATCATCC  
AGCGGGCGGAGGAGCTGGTGGGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAAGTGCAGCACTTTGT  
GAATGAGCTGCGCTATGGAGTCGCCCGCAGTGACCAGGTGAGAGATGTCATCATCGCTGCAAGCGTTGCA  
GGAATGGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAAAAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC225152 protein sequence Red=Cloning site Green=Tags(s)
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MRAPIPEPKPGDLIEIFRPFYRHWAIYVGDGYVHLAPPSEVAGAGAASVMSALTDKAIYKCELLYDVAG  
SDKYQVNNKHDDKYSPLPCSKIIQRAEELVQEVLYKLTSENCEHFVNELRYGVARSQVQVVDVIIAASVA  
GMGLAAMSLIGVMFSRNRKQKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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UniProt ID: [P53816](#)

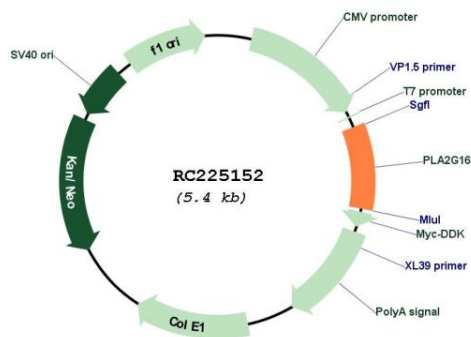
Cytogenetics: 11q12.3-q13.1

Protein Families: Druggable Genome, Transmembrane

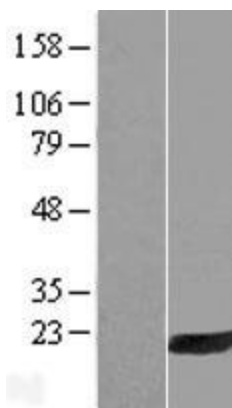
MW: 17.9 kDa

**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 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]

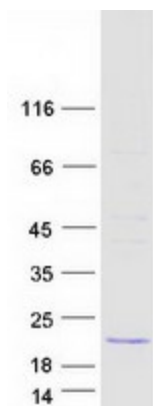
### Product images:



Circular map for RC225152



Western blot validation of overexpression lysate (Cat# [LY426918]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225152 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLAAT3 protein (Cat# [TP325152]). The protein was produced from HEK293T cells transfected with PLAAT3 cDNA clone (Cat# RC225152) using MegaTran 2.0 (Cat# [TT210002]).