

Product datasheet for **SC322857**

HRASLS3 (PLA2G16) (NM_001128203) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRASLS3 (PLA2G16) (NM_001128203) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLAAT3
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)
Fully Sequenced ORF:	>SC322857 representing NM_001128203. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGTGCGCCCATTCAGAGCCTAAGCCTGGAGACCTGATTGAGATTTTTCGCCCTTCTACAGACAC
TGGGCCATCTATGTTGGCGATGGATATGTGTTTCATCTGGCCCTCCAAGTGAGGTCGCAGGAGCTGGT
GCAGCCAGTGTCATGTCCGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTGCTGTATGATGTGGCC
GGGAGTGACAAGTACCAGGTCAACAACAAACATGATGACAAGTACTCGCCGCTGCCCTGCAGCAAAATC
ATCCAGCGGGCGGAGGAGCTGGTGGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAAGTGCAGGAGC
TTTGTGAATGAGCTGCGCTATGGAGTCGCCCGCAGTGACCAGGTGACAGATGTCATCATCGCTGCAAGC
GTTGCAGGAATGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAAAAG
CAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_001128203
Insert Size:	489 bp



[View online »](#)

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_001128203.1</u>
RefSeq Size:	1111 bp
RefSeq ORF:	489 bp
Locus ID:	11145
UniProt ID:	<u>P53816</u>
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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.