

Product datasheet for **SC126921**

HRASLS3 (PLA2G16) (NM_007069) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRASLS3 (PLA2G16) (NM_007069) Human Untagged Clone
Tag:	Tag Free
Symbol:	HRASLS3
Synonyms:	AdPLA; H-REV107; H-REV107-1; HRASLS3; HREV107; HREV107-1; HREV107-3; HRSL3; PLA2G16; PLAAT-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126921 sequence for NM_007069 edited (data generated by NextGen Sequencing) ATGCGTGCGCCATTCCAGAGCCTAAGCCTGGAGACCTGATTGAGATTTTTCGCCCTTTC TACAGACACTGGGCCATCTATGTTGGCGATGGATATGTGGTTCATCTGGCCCTCCAAGT GAGGTCGCAGGAGCTGGTGCAGCCAGTGTCTATGTCCGCCCTGACTGACAAGGCCATCGTG AAGAAGGAATTGCTGTATGATGTGGCCGGAGTGACAAGTACCAGGTCAACAACAACAT GATGACAAGTACTCGCCGCTGCCCTGCAGCAAAATCATCCAGCGGGCGGAGGAGCTGGT GGGCAGGAGGTGCTCTACAAGCTGACCAGTGAGAACTGCGAGCACTTTGTGAATGAGCTG CGCTATGGAGTCGCCCGCAGTGACCAGGTGAGAGATGTCATCATCGCTGCAAGCGTTGCA GGAATGGGCTTGGCAGCCATGAGCCTTATTGGAGTCATGTTCTCAAGAAACAAGCGACAA AAGCAATAA Clone variation with respect to NM_007069.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007069 unedited CACGACTCTCTATAGGGCGGCCGGAATTCGGCACGAGGCAGACATCTACGCAGCGAAAT CGAGCCTGGCCTTGAGGGTCCACACCGCGAGGGAAGATGCGTGCGCCATTCCAGAGCCT AAGCCTGGAGACCTGATTGAGATTTTTCGCCCTTTCTACAGACTGGGCCATCTATGTT GGCGATGGATATGTGGTTCATCTGGCCCTCCAAGTGAGGTGCGCAGGAGCTGGTGCAGCC AGTGTTCATGTCCGCCCTGACTGACAAGGCCATCGTGAAGAAGGAATTGCTGTATGATGTG GCCGGCAGTGACAAGTACCAGGTCAACAACAAACATGATGACAAGTACTCGCCGCTGCC TGCAGCAAAATCATCCAGCGGGCGGAGGAGCTGGTGGGGCAGGAGGTGCTCTACAAGCTG ACCAGTGAGAAGTGCAGCACTTTGTGAATGAGCTGCGCTATGGAGTCGCCCGCAGTGAC CAGGTCAGAGATGTCATCATCGCTGCAAGCGTTGCAGGAATGGGCTTGGCAGCCATGATC CTTATTGGAGTCATGTTCTCAAGATACAAGCGACAAAAGCAATAACTGAAAAAGACTGTC CTGTCAGCGATGACTTTATACATCAAGGAGGTCTGTTTTGCTAGAGAGTTTAGAGTTTT GGTTTGTGGATTTATTGCGATTATAATAAGGCTTATTTACAGAATANACTAAGCANN AAAAAAAAAAAAAAGTACTGACTCTATATTGCGGCCCGCTCATAGCTGTTTCTGAACAGA TCCCGGGTGGCATCCCTGTGACCCCTCCCATTTGCTTCTGGCCCTGGNAGTTGCACT CCAGTGCCACCAGCCTGTCCTATAAAATTAGTTGCATATTTGTCTGACANGGCCCTCATA TATATGGGGGGGGGGTGTCTTCCCCGCTCCATCTACTCACCCATTGCGCCTAATAA CCAT
Restriction Sites:	NotI-NotI
ACCN:	NM_007069
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).
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:	NM_007069.1 , NP_009000.1
RefSeq Size:	1070 bp
RefSeq ORF:	489 bp
Locus ID:	11145
UniProt ID:	P53816
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]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same isoform.