

OriGene Technologies, Inc.

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Product datasheet for RC210072

Phytoceramidase (ACER3) (NM_018367) Human Tagged ORF Clone

Product data:

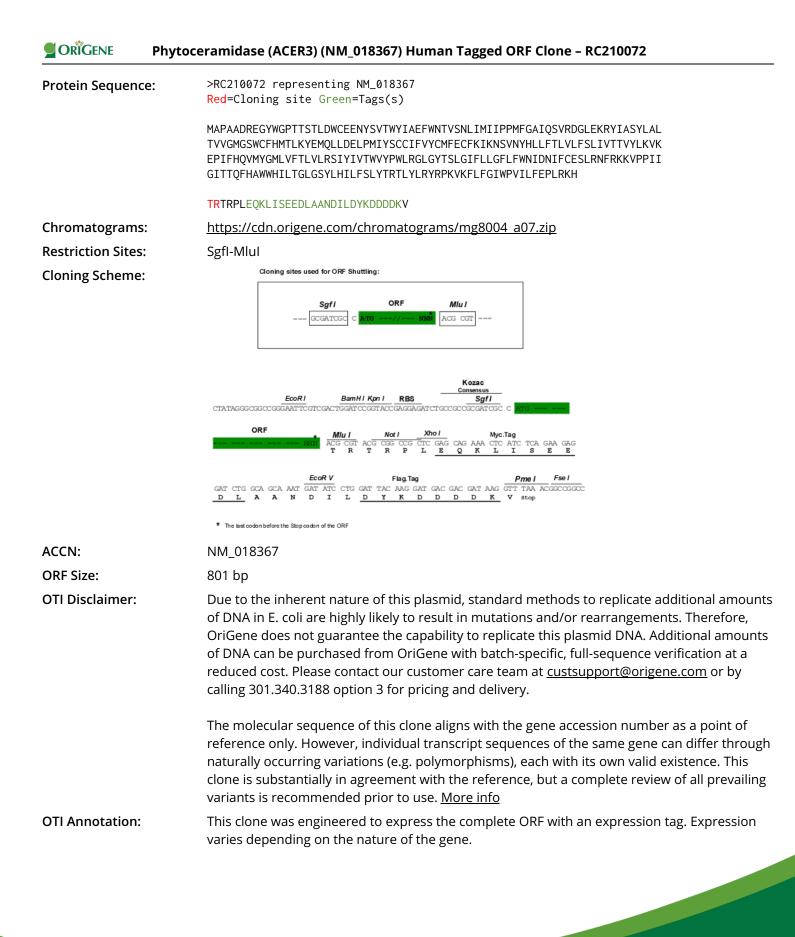
Product Type:	Expression Plasmids
Product Name:	Phytoceramidase (ACER3) (NM_018367) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phytoceramidase
Synonyms:	APHC; PHCA; PLDECO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC210072 representing NM_018367 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGGCTCCGGCCGCGACCGAGAGGGCTACTGGGGCCCCACGACCTCCACGCTGGACTGGTGCGAGGAGA ACTACTCCGTGACCTGGTACATCGCCGAGTTCTGGAATACAGTGAGTAACCTGATCATGATTATACCTCC AATGTTCGGTGCAATTCAGAGTGTTAGAGACCGTCTGGAAAAACGGTACATTGCTTCTTATTTAGCACTC ACAGTGGTAGGAATGGGATCCTGGTGCTTCCACATGACTCTGAAATATGAAATGCAGCTATTGGATGAAC TCCCAATGATATACAGCTGTTGCATATTTGTGTACTGCATGTTTGAATGTTTCAAGATCAAGAACTCAGT AAACTACCATCTGCTTTTTACCTTAGTTCTATTCAGTTTAATAGTAACCACAGGTTACCTTAAGGTAAAA GAGCCAATATTCCATCAGGTCATGTATGGAATGTTGGTCTTTACATTAGTACTTCGATCTATTTATATTG TTACATGGGTTTATCCATGGCTTAGAGGACTGGGTTATACATCATTGGGTATATTTTTATTGGGATTTTT ATTTTGGAATATAGATAACATATTTTGTGAGTCACTGAGGAACTTTCGAAAGAAGGTACCACCTATCATA GGTATTACCACACACATTTCATGCATGGTGGCATATTTTAACTGGCCTTGGTTCCTATCTTCACATCATC GGTATTACCACACAATTTCATGCATGGTGGCATATTTTAACTGGCCTTGGTTCCTATCTTCACATCGCC AGTGATCCTGTTTGAGCCTCTCAGGAAGCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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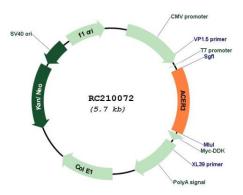
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	eramidase (ACER3) (NM_018367) Human Tagged ORF Clone – RC210072
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 018367.4</u>
RefSeq Size:	3473 bp
RefSeq ORF:	804 bp
Locus ID:	55331
UniProt ID:	Q9NUN7
Cytogenetics:	11q13.5
Protein Families:	Transmembrane
Protein Pathways:	Sphingolipid metabolism
MW:	31.4 kDa
Gene Summary:	Endoplasmic reticulum and Golgi ceramidase that catalyzes the hydrolysis of unsaturated long-chain C18:1-, C20:1- and C20:4-ceramides, dihydroceramides and phytoceramides into sphingoid bases like sphingosine and free fatty acids at alkaline pH (PubMed:20068046, PubMed:26792856, PubMed:20207939, PubMed:11356846, PubMed:30575723). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (PubMed:20068046). Controls the generation of sphingosine in erythrocytes, and thereby sphingosine-1-phosphate in plasma (PubMed:20207939). Through the regulation of ceramides and sphingosine-1-phosphate homeostasis in the brain may play a role in neurons survival and function (By similarity). By regulating the levels of proinflammatory ceramides in immune cells and tissues, may modulate the inflammatory response (By similarity).[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for RC210072

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