OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC211059

PTPLAD2 (HACD4) (NM_001010915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPLAD2 (HACD4) (NM_001010915) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPLAD2
Synonyms:	PTPLAD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC211059 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCTTGGCGCTGCCCGCCTGGCTGCAGCCCAGGTATAGGAAGAATGCGTATCTTTTCATCTATT
ACTTAATCCAGTTCTGTGGCCACTCTTGGATATTTACAAATATGACAGTCAGATTCTTTTCATTTGGAAA
AGATTCAATGGTTGACACTTTTTATGCTATTGGACTTGTGATGCGACTTTGCCAATCCGTATCTCTCCTG
GAACTGCTGCACATATATGTTGGCATTGAGTCAAACCATCTTCTCCCAAGGTTTTTGCAGCTCACAGAAA
GAATAATCATCCTTTTTGTGGTGATCACCAGTCAAGAGGAAGTCCAAGAGAAATATGTGGTGTGTGTTTT
ATTCGTCTTTTGGAATCTATTGGATATGGTTAGGTACACTTATAGCATGTTATCAGTCATAGGAATATCC
TATGCTGTCTTGACATGGCTCAGTCAAACACTATGGATGCCAATTTATCCTTTGTGTGTTCTTGCTGAAG
CATTTGCCATCTATCAATCGCTGCCTTATTTTGAATCATTTGGCACTTATTCCACCAAGCTGCCCTTTGA
CTTATCCATCTATTTCCCATATGTGCTGAAAATATATCTCATGATGCTCTTTATAGGTATGTATTTTACC
TACAGTCATCTATACTCAGAAAGAAGAGACATCCTCGGAATCTTTCCCATTAAAAAAAAGAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC211059 protein sequence
Red=Cloning site Green=Tags(s)

MGPLALPAWLQPRYRKNAYLFIYYLIQFCGHSWIFTNMTVRFFSFGKDSMVDTFYAIGLVMRLCQSVSLL
ELLHIYVGIESNHLLPRFLQLTERIIILFVVITSQEEVQEKYVVCVLFVFWNLLDMVRYTYSMLSVIGIS
YAVLTWLSQTLWMPIYPLCVLAEAFAIYQSLPYFESFGTYSTKLPFDLSIYFPYVLKIYLMMLFIGMYFT
YSHLYSERRDILGIFPIKKKKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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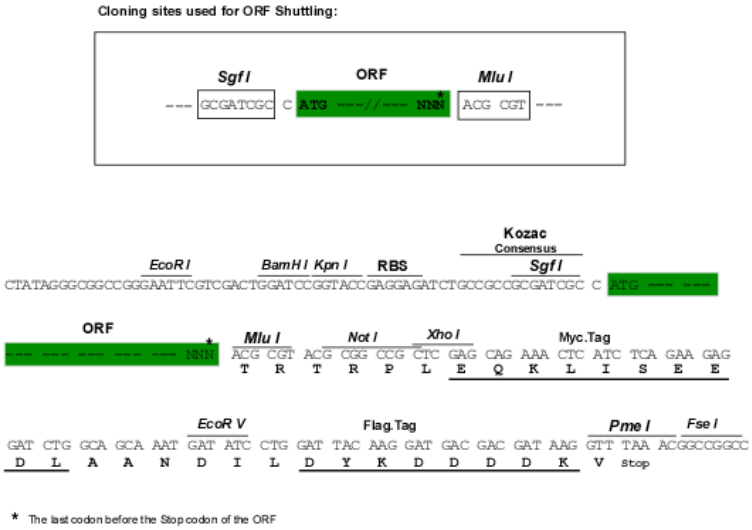
Chromatograms: https://cdn.origene.com/chromatograms/mk6378_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010915

ORF Size: 696 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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Reconstitution Method:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001010915.5
RefSeq Size:	1416 bp
RefSeq ORF:	699 bp
Locus ID:	401494
UniProt ID:	Q5VWC8
Cytogenetics:	9p21.3
Protein Families:	Transmembrane
MW:	27.5 kDa
Gene Summary:	Catalyzes the third of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme catalyzes the dehydration of the 3-hydroxyacyl-CoA intermediate into trans-2,3-enoyl-CoA, within each cycle of fatty acid elongation. Thereby, it participates in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.[UniProtKB/Swiss-Prot Function]

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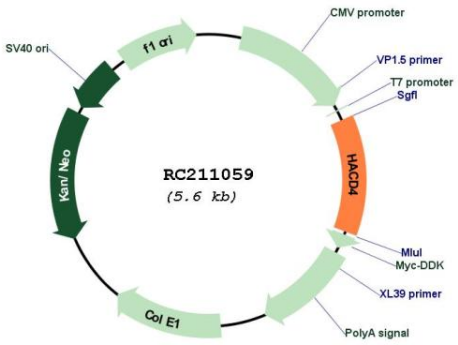
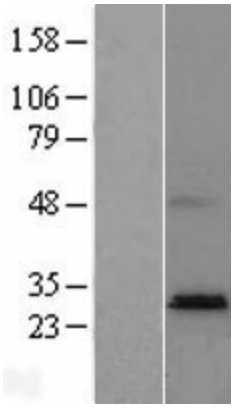
Product images:



Circular map for RC211059



Western blot validation of overexpression lysate (Cat# [LY423227]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211059 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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