

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCCTTGGCGCTGCCCGCCTGGCTGCAGCCCAGGTATAGGAAGAATGCGTATCTTTTCATCTATT  
ACTTAATCCAGTTCTGTGGCCACTCTTGGATATTTACAAATATGACAGTCAGATTCTTTTCATTTGGAAA  
AGATTCAATGGTTGACACTTTTTATGCTATTGGACTTGTGATGCGACTTTGCCAATCCGTATCTCTCCTG  
GAACTGCTGCACATATATGTTGGCATTGAGTCAAACCATCTTCTCCAAGGTTTTTGAGCTCACAGAAA  
GAATAATCATCCTTTTTGTGGTATCACCAGTCAAGAGGAAGTCAAGAGAAATATGTGGTGTGTGTTTT  
ATTCGCTTTTTGGAATCTATTGGATATGTTAGGTACACTTATAGCATGTTATCAGTCATAGGAATATCC  
TATGCTGTCTTGACATGGCTCAGTCAAACACTATGGATGCCAATTTATCCTTTGTGTGTTCTTGCTGAAG  
CATTTGCCATCTATCAATCGCTGCCTATTTTGAATCATTTGGCACTTATCCACCAAGCTGCCCTTTGA  
CTTATCCATCTATTTCCCATATGTGCTGAAAATATATCTCATGATGCTCTTTATAGGTATGTATTTTACC  
TACAGTCATCTATACTCAGAAAGAAGAGACATCCTCGAATCTTCCCATTAATAAAAAAGAAGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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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.

**RefSeq:** [NM\\_001010915.5](#)

**RefSeq Size:** 1416 bp

**RefSeq ORF:** 699 bp

**Locus ID:** 401494

**UniProt ID:** [Q5VWC8](#)

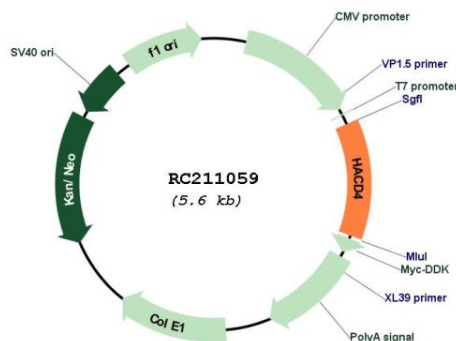
**Cytogenetics:** 9p21.3

**Protein Families:** Transmembrane

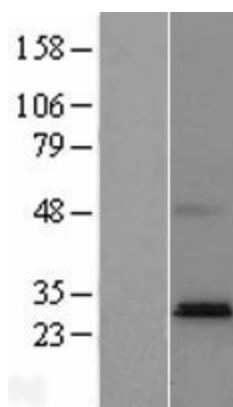
**MW:** 27.5 kDa

**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]

### 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 untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211059 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).