

## Product datasheet for **SC301529**

### PTPLAD2 (HACD4) (NM\_001010915) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPLAD2 (HACD4) (NM_001010915) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPLAD2
Synonyms:	PTPLAD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001010915 edited GAAGCCCTGGCGCGCGGCCCATGGGGCCCTTGGCGCTGCCCGCCTGGCTGCAGCCCAG GTATAGGAAGAATGCGTATCTTTTCATCTATTACTTAATCCAGTTCTGTGGCCACTTTG GATATTTACAAATATGACAGTCAGATTCTTTTCATTTGGAAAAGATTCAATGGTTGACAC TTTTTATGCTATTGGACTTGATGCGACTTTGCCAATCCGTATCTCTCCTGGAAGTCTG GCACATATATGTTGGCATTGAGTCAAACCATCTTCTCCAAGTTTTTGCAGCTCACAGA AAGAATAATCATCCTTTTTGTGGTGATCACCAGTCAAGAGGAAGTCCAAGAGAAATATGT GGTGTGTGTTTTATTCGCTTTTTGGAATCTATTGGATATGTTAGGTACACTTATAGCAT GTTATCAGTCATAGGAATATCCTATGCTGTCTTGACATGGCTCAGTCAAACACTATGGAT GCCAATTTATCCTTTGTGTGTTCTTGCTGAAGCATTTGCCATCTATCAATCGCTGCCTTA TTTTGAATCATTTGGCACTTATCCACCAAGCTGCCCTTTGACTTATCCATCTATTTCCC ATATGTGCTGAAAATATATCTCATGATGCTCTTTATAGGTATGATTTTACCTACAGTCA TCTATACTCAGAAAGAAGAGACATCCTCGGAATCTTTCCATTAAAAAAGAAGATGTG AAGTACAGCATTCCAGTGTGACACGAGAAAAGACAGGCTGTGGATTTCAGTGCAGTAAATA AAACACAGGAAGTATTCTGGTG
Restriction Sites:	Please inquire
ACCN:	NM_001010915
Insert Size:	800 bp
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).



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<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001010915.1</a></u> , <u><a href="#">NP_001010915.1</a></u>
<b>RefSeq Size:</b>	4113 bp
<b>RefSeq ORF:</b>	699 bp
<b>Locus ID:</b>	401494
<b>UniProt ID:</b>	<u><a href="#">Q5VWC8</a></u>
<b>Cytogenetics:</b>	9p21.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]