

## Product datasheet for **SC313184**

### PTPLAD1 (HACD3) (NM\_016395) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPLAD1 (HACD3) (NM_016395) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPLAD1
Synonyms:	B-IND1; BIND1; HSPC121; PTPLAD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313184 representing NM_016395. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGAATCAGGTGTTGACGCCGATGTCTACTGGGCTCAGCGACACCGCGAGCTATATCTGCGCGTG
GAGCTGAGTGACGTACAGAACCCTGCCATCAGCATCACTGAAAACGTGCTGCATTCAAAGCTCAAGGA
CATGGTGCCAAAGGAGACAATGTCTATGAATTTACCTGGAGTCTTAGACCTTGTGAAACCAGAGCCT
GTTTACAACTGACCCAGAGGCAGGTAACATTACAGTACAGAAGAAAGTGAGTCAGTGGTGGGAGAGA
CTCACAAGCAGGAAAAGCGACCACTGTTTTGGCTCCTGACTTTGATCGTTGGCTGGATGAATCTGAT
GCGGAAATGGAGCTCAGAGCTAAGGAAGAAGAGCGCCTAAATAAACTCCGACTGGAAAGCGAAGGCTCT
CCTGAAACTCTTACAACTTAAGGAAAGGATACCTGTTTATGTATAATCTTGTGCAATCTTGGGATTC
TCCTGGATCTTTGTCAACCTGACTGTGCGATTCTGTATCTTGGGAAAAGAGTCCTTTTATGACACATTC
CATACTGTGGCTGACATGATGATTTCTGCCAGATGCTGGCAGTTGTGGAAACTATCAATGCAGCAATT
GGAGTCACTACGTACCGGTGCTGCCTTCTGATCCAGCTTCTTGAAGAAATTTATTTTGTATC
ATCTTTGGCACCATGGAAGAAATGCAGAACAAAGCTGTGGTTTTCTTTGTGTTTTATTTGTGGAGTGCA
ATTGAAATTTTCAGTACTCTTTCTACATGCTGACGTGCATTGACATGGATTGGAAGGTGCTCACATGG
CTTCGTTACACTCTGTGGATCCCTTATCCACTGGGATGTTTGGCGGAAGCTGTCTCAGTGATTACAG
TCCATTTCCAATATTCAATGAGACCGGACGATTTCAGTTTCACATTGCCATATCCAGTGAAAATCAAAGTT
AGATTTTCTTTTTCTCAGATTTATCTTATAATGATATTTTTAGGTTTATACATAAATTTTCGTCAC
CTTTATAAACAGCGCAGACGGCGCTATGGACAAAAAAGAAAAAGATCCCAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_016395



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<b>Insert Size:</b>	1089 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_016395.2</a>
<b>RefSeq Size:</b>	3213 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	51495
<b>UniProt ID:</b>	<a href="#">Q9P035</a>
<b>Cytogenetics:</b>	15q22.31
<b>Domains:</b>	PTPLA
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	43.2 kDa
<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. May be involved in Rac1-signaling pathways leading to the modulation of gene expression. Promotes insulin receptor/INSR autophosphorylation and is involved in INSR internalization (PubMed:25687571).[UniProtKB/Swiss-Prot Function]