

Product datasheet for **RC208455**

PTPLB (HACD2) (NM_198402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPLB (HACD2) (NM_198402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPLB
Synonyms:	PTPLB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208455 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGTGGCGGCGACTGCAGCAGCGAAGGGGAATGGGGCGGCGGTGGCAGGGCCGGGGCCGGGG
ACGCCAGCGGCACGCGGAAGAAGAAGGGCCCGGGCCCTGGCCACGGCGTACCTGGTCATCTACAATGT
GGTGATGACAGCCGGTGGCTGGTTATAGCGTTGGTCTGGTCCGAGCATACCTGGCTAAGGGTAGCTAC
CATAGCCTTTATTATTCAATTGAAAAGCCTTTGAAATCTTTCAAACCTGGAGCCTTATTGGAGATTTTAC
ATTGTGCTATAGGAATTGTTCCATCTTCTGTTGCCTGACTTCTTCCAGGTGATGTCAAGAGTTTTTCT
AATATGGGCAGTAACACATAGCGTCAAAGAGGTACAGAGTGAAGACAGTGTCTCCTGTTTGTATTGCA
TGGACGATCACGAAATCATCCGTTACTCCTTTTATACATTCACTATTAACCATCTGCCTTACCTCA
TCAAATGGGCCAGGTACACACTTTTCAATTGTGCTGTACCCAATGGGAGTGTGAGGAGAACTGCTCACAAT
ATATGCAGCTCTGCCCTTGTGACAGCAAGCTGGCCTATATTCCATCAGTTTACCCAACAAATACAATTTT
TCTTTTGACTACTATGCATTCTGATTCTAATAATGATCTCTACATTCCAATTTTTCCCGATTACT
TCCACATGATACACCAGAGAAGAAGATCCTTTCTCACTGAAGAACAAGAAATTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208455 protein sequence
Red=Cloning site Green=Tags(s)

MAAVAATAAAKNGGGGGGRAGAGDASGTRKKKGGPLATAYLVIYNNVMTAGWLVIAGLVRAYLAKGSY
HSLYYISIEKPLKFFQTGALLEILHCAIGIVPSSVVLTSFQVMSRVFLIWAVTHSVKEVQSEDSVLLFVIA
WTITEIIRYSFYTFSLNLHLPYLKWARYTFLIVLYPMGVSGELLTIYAALPFVRQAGLYSISLPNKYNF
SFDYYAFLILIMISYIPIFPQLYFHMIHQRRKILSHTEEHKKFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6087_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_198402

ORF Size: 762 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).

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_198402.5](#)

RefSeq Size: 1187 bp

RefSeq ORF: 765 bp

Locus ID: 201562

UniProt ID: [Q6Y1H2](#)

Cytogenetics: 3q21.1

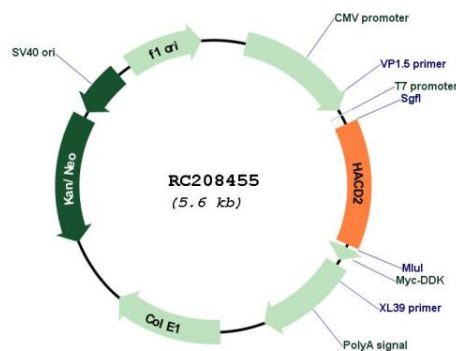
Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Biosynthesis of unsaturated fatty acids

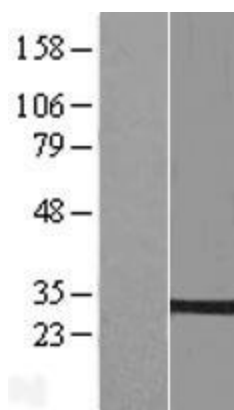
MW: 28.4 kDa

Gene Summary: The protein encoded by this gene can catalyze the third step (dehydration) in the conversion of long chain fatty acids to very long chain fatty acids. The encoded protein localizes to the endoplasmic reticulum membrane. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC208455



Western blot validation of overexpression lysate (Cat# [LY405053]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208455 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).