

Product datasheet for **RC233133**

PNPLA8 (NM_001256008) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA8 (NM_001256008) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNPLA8
Synonyms:	IPLA2-2; IPLA2G; iPLA2gamma; MMLA; PNPLA-gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC233133 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTATTAATCTGACTGTAGATATATATATTTACCTCCTTAGTAATGCAAGAAGTGTTTGTGGGAAGC
 AGAGAAGCAAGCAACTGTATTTCTTGTCTCACCTAAGCATTACTGGAGGATAAGCCACATCAGTCTACA
 AAGAGGTTTTTCATACAAACATAAAGATGTAAGTGGACCAAAAGTGAAGCACATTCTTGCAAGTAAAGC
 TGTTACTCTCCAAGCAACCATGGTTTACATATTGGGATTTTAAAAGTACTTTGAACTCTGTTTCAAAGGCTGTTTTGG
 TTACAAAAGTGAACATTTGTATGTCCCGTATTAAGTACTTTGAACTCTGTTTCAAAGGCTGTTTTGG
 CAATCAAAATGAAATGATTTACGTTTAGCTCAATTTAAGCCAAGTTCCCAAATTTAAGAAAAGTATCG
 GATAGTGGCTGGTAAAACAGAAAACATCAAACAAGCCATCAAATCTCTGAAAAATATAGTGACAAAT
 CAGCAGAAAAGAGTCCTTTCCAGAAGAGAAAAGTACATTATAGACAAAGAAGAAGATATAGGTAACG
 CAGTCTTTTTTATTACACAAGTTCTATAACCACAAAATTTGGAGACTCATTCTACTTTTTATCAAATCAT
 ATTAATTCATATTTCAAACGTAAGGAAAAATGTCTCAACAAAAGGAAAAATGAACATTTCCGGGACAAAT
 CAGAAGTTGAAGATAAAAAGGTAGAAGAGGGGAAATTAAGATCTCCAGATCCTGGCATCCTGGCTTATAA
 GCCAGGCTCAGAACTGTACATACGGTGGACAAGCCTACAAGTCTTCTGCGATACCTGATGTTCTTCAA
 GTTTCAACTAAACAAAGTATTGCTAACTTTCTTCTCGTCCCACGGAAGGTGTACAAGCTTTAGTAGGTG
 GTTATATTGGTGGACTTGTCCCAAATTAAGTATGATTCAAAGAGTCAGTCAGAAGAACAGGAAGAGCC
 TGCTAAAAGTATCGCAAGGGTGAAGTATTGATAACAGGACCCGGGCATTAGTTCAGGCATTAAGAAGAACAA
 CTGACCCAAAGCTCTGCATTACTAGGGTTGAAGAACTGACTTTTTCATCTCTAGAATTTCTGAAAGGAAA
 AGGAGTGGCTGTCAAGGAAAGAATTATTCCATATTTATTACGACTGAGACAAATTAAGGATGAAACTCTT
 CAGGCTGCAGTTAGAGAAATTTGGCCCTAATTGGCTATGTGGATCCAGTGAAGGGAGAGGAATCCGAA
 TTCTCTCAATTGATGGTGGAGGAACAAGGGCGTGGTGTCTCCAGACCTACGAAAATAGTTGAACT
 TACTCAGAAGCCAGTTCATCAGCTCTTTGATTACATTTGGTGTAAAGCACAGGTGCCATATTAGCTTTC
 ATGTTGGGTTGTTTCATATGCCCTGGATGAATGTGAGGAACTTATCGAAAATAGGATCAGATGTAT
 TTTCAAAAATGTCATTGTTGGAACAGTAAAAATGAGTTGGAGCCATGCATTTTATGACAGTCAAACATG
 GAAAAACATTCTAAGGATAGGATGGGATCTGCACTGATGATTGAAACAGCAAGAAACCCACATGTCCT
 AAGGTAGCTGCTGTAAGTACCATAGTAAATAGAGGGATAACACCCAAAGCTTTTGTGTTCAAGAACTATG
 GTCATTTTCTGGAATCAACTCTCATTATTTGGGAGGCTGTAGTATAAAATGTGGCAGGCCATTAGAGC
 CTCATCTGCTGCTCCAGGCTACTTTGCAGAAATATGCATTGGGAAATGATCTTCATCAAGATGGAGGTTTG
 CTTCTGAATAACCTTCGGCATTAGCTATGCATGAGTGTAAATGTCTTTGGCCAGATGTGCCGTTAGAGT
 GCATAGTATCCCTGGGCACTGGACGTTATGAGAGTGTGTGAGAAACACGGTAACATACACAAGCTTGAA
 AACTAACTTTCTAATGTTATCAACAGTGTACAGATACAGAAGAAGTCCATATAATGCTTGATGGCCTG
 TTACCTCCTGACACCTATTTAGATTCAATCCTGTAATGTGTGAAAACATACCTCTAGATGAAAGTCGAA
 ATGAAAAGCTGGATCAGCTGCAGTTGGAAGGGTTGAAATACATAGAAAAGAAATGAACAAAAATGAAAAA
 AGTTGCAAAAATATTAAGTCAAGAAAAACAACCTGCAGAAAAATTAATGATTGGATAAAAATAAAAACT
 GATATGTATGAAGGACTTCCATTCTTTTCAAATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233133 protein sequence
Red=Cloning site Green=Tags(s)

MSINLTVDIYIYLLSNARSVCGKQRSKQLYFLFSPKHYWRISHISLQRFHTNIIRCKWTKSEAHSCSKH
CYSPSNHGLHIGILKLSTSAPKGLTKVNICMSRIKSTLNSVSKAVFGNQNEMISRLAQFKPSSQILRKVS
DSGWLKQKNIKQAIKSLKKYSDKSAEKSPFPEEKSHIIDKEEDIGKRSLFHYTSSITTKFGDSFYFLSNH
INSYFKRKEKMSQQKENEHFRDKSELEDKKVEEGKLRSPDPGILAYKPGSESVHTVDKPTSPSAIPDVLQ
VSTKQSIANFLSRPTEGVQALVGGYIGGLVPKLYDSKSQSEEQEPAKTDQAVSKDRNAEKKRSLQR
EKIARVSIIDNRTRALVQALRRTTDPKLCITRVEELTFHLLFPEGKGVAVKERIIPYLLRRLRQIKDEL
QAAVREILALIGYVDPVKGRGIRILSIDGGGTRGVVALQTLRKLVELTQKPVHQLFDYICGVSTGAILAF
MLGLFHMPLEDECEL YRKLGSDFVSNVIVGTVMKMSWSHAFYDSQTWENILKDRMGALMIETARNPTCP
KVAAVSTIVNRGITPKAFVFRNYGHFPGINSHYLGCCQYKMWQAIRASSAAPGYFAEYALGNDLHQDGG
LLNNPSALAMHECKLWPDVPLECIVSLGTGRYESDVRNTVTYTSKTKLSNVINSATDTEEVHIMLDGL
LPPDITYFRFNPVCENIPLDESRNEKLDQLQLEGLKYIERNEQMKKVKVAKILSQEKTTLQKINDWIKLKT
DMYEGLPFFSKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6201_a10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001256008

ORF Size: 2346 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_001256008.3](#)

RefSeq Size: 4701 bp

RefSeq ORF: 2349 bp

Locus ID: 50640

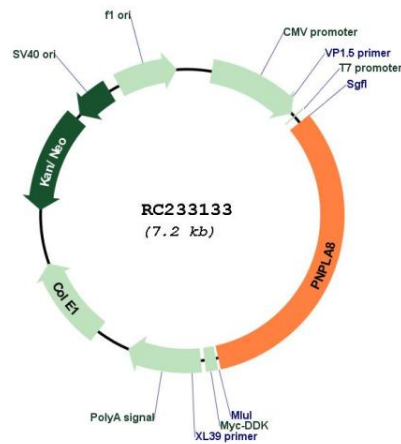
UniProt ID: [Q9NP80](#)

Cytogenetics: 7q31.1

MW: 88.5 kDa

Gene Summary: This gene encodes a member of the patatin-like phospholipase domain containing protein family. Members of this family are phospholipases which catalyze the cleavage of fatty acids from membrane phospholipids. The product of this gene is a calcium-independent phospholipase. Mutations in this gene have been associated with mitochondrial myopathy with lactic acidosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2015]

Product images:



Circular map for RC233133