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Product datasheet for RC205193

PNPLA8 (NM_015723) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA8 (NM_015723) 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)

ORF Nucleotide Sequence:

>RC205193 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTATTAATCTGACTGTAGATATATATATTTACCTCCTTAGTAATGCAAGAAGTGTTTGTGGGAAGC
AGAGAAGCAAGCAACTGTATTTCTTGTTCTCACCTAAGCATTACTGGAGGATAAGCCACATCAGTCTACA
AAGAGGTTTTCATACAAACATAATAAGATGTAAATGGACCAAAAGTGAAGCACATTCTTGCAGTAAGCAC
TGTTACTCTCCAAGCAACCATGGTTTACATATTGGGATTTTGAAACTTAGCACTTCTGCTCCCAAGGGAC
TTACAAAAGTGAACATTTGTATGTCCCGTATTAAAAGTACTTTGAACTCTGTTTCAAAGGCTGTTTTTGG
CAATCAAAATGAAATGATTTCACGTTTAGCTCAATTTAAGCCAAGTTCCCAAATTTTAAGAAAAGTATCG
GATAGTGGCTGGTTAAAACAGAAAAACATCAAACAAGCCATCAAATCTCTGAAAAAATATAGTGACAAAT
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CAGTCTTTTTCATTACACAAGTTCTATAACCACAAAATTTGGAGACTCATTCTACTTTTTATCAAATCAT
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CAGAACTTGAAGATAAAAAGGTAGAAGAGGGGAAATTAAGATCTCCAGATCCTGGCATCCTGGCTTATAA
GCCAGGCTCAGAATCTGTACATACGGTGGACAAGCCTACAAGTCCTTCTGCGATACCTGATGTTCTTCAA
GTTTCAACTAAACAAAGTATTGCTAACTTTCTTTCTCGTCCCACGGAAGGTGTACAAGCTTTAGTAGGTG
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TGCTAAAACTGATCAGGCTGTCAGCAAAGACAGAAATGCAGAGGAGAAAAAGCGTTTATCTCTTCAGCGA
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CTGACCCAAAGCTCTGCATTACTAGGGTTGAAGAACTGACTTTTCATCTTCTAGAATTTCCTGAAGGAAA
AGGAGTGGCTGTCAAGGAAAGAATTATTCCATATTTATTACGACTGAGACAAATTAAGGATGAAACTCTT
CAGGCTGCAGTTAGAGAAATTTTGGCCCTAATTGGCTATGTGGATCCAGTGAAAGGGAGAGGAATCCGAA
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TTTCACAAAATGTCATTGTTGGAACAGTAAAAATGAGTTGGAGCCATGCATTTTATGACAGTCAAACATG
GGAAAACATTCTTAAGGATAGGATGGGATCTGCACTGATGATTGAAACAGCAAGAAACCCCACATGTCCT
AAGGTAGCTGCTGTAAGTACCATAGTAAATAGAGGGATAACACCCAAAGCTTTTGTGTTCAGAAACTATG
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CTTCTGAATAACCCTTCGGCATTAGCTATGCATGAGTGTAAATGTCTTTGGCCAGATGTGCCGTTAGAGT
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AGTTGCAAAAATATTAAGTCAAGAAAAAACAACTCTGCAGAAAATTAATGATTGGATAAAATTAAAAACT
GATATGTATGAAGGACTTCCATTCTTTTCAAAATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205193 protein sequence
Red=Cloning site Green=Tags(s)

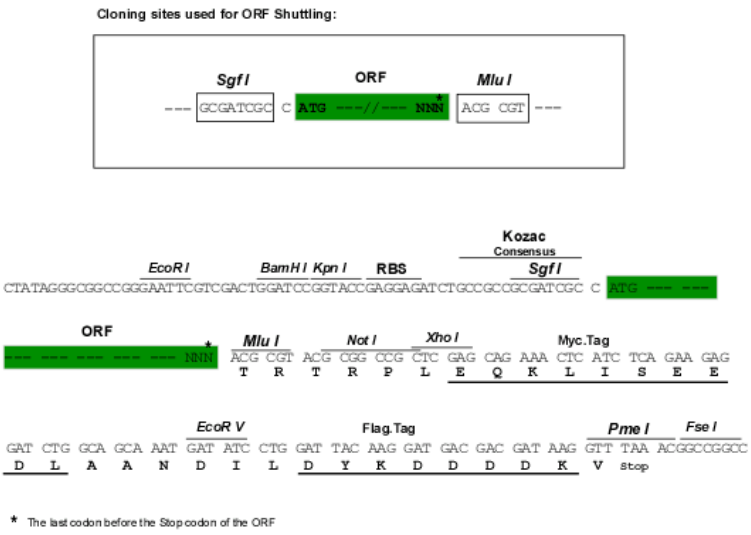
MSINLTVDIYIYLLSNARSVCGKQRSKQLYFLFSPKHYWRISHISLQRGFHTNIIRCKWTKSEAHSCSKH
CYSPSNHGLHIGILKLSTSAPKGLTKVNICMSRIKSTLNSVSKAVFGNQNEMISRLAQFKPSSQILRKVS
DSGWLKQKNIKQAIKSLKKYSDKSAEKSPFPEEKSHIIDKEEDIGKRSLFHYTSSITTKFGDSFYFLSNH
INSYFKRKEKMSQQKENEHFRDKSELEDKKVEEGKLRSPDPGILAYKPGSESVHTVDKPTSPSAIPDVLQ
VSTKQSIANFLSRPTEGVQALVGGYIGGLVPKLKYDSKSQSEEQEEPAKTDQAVSKDRNAEEKKRLSLQR
EKIIARVSIDNRTRALVQALRRTTDPKLCITRVEELTFHLLEFPEGKGVAVKERIIPYLLRLRQIKDETL
QAAVREILALIGYVDPVKGRGIRILSIDGGGTRGVVALQTLRKLVELTQKPVHQLFDYICGVSTGAILAF
MLGLFHMPLDECEELYRKLGSDVFSQNVIVGTVKMSWSHAFYDSQTWENILKDRMGSALMIETARNPTCP
KVAAVSTIVNRGITPKAFVFRNYGHFPGINSHYLGGCQYKMWQAIRASSAAPGYFAEYALGNDLHQDGGL
LLNNPSALAMHECKCLWPDVPLECIVSLGTGRYESDVRNTVTYTSLKTKLSNVINSATDTEEVHIMLDGL
LPPDTYFRFNPVMCENIPLDESRNEKLDQLQLEGLKYIERNEQKMKKVAKILSQEKTTLQKINDWIKLKT
DMYEGLPFFSKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015723

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_015723.5

RefSeq Size: 4859 bp

RefSeq ORF: 2349 bp

Locus ID: 50640

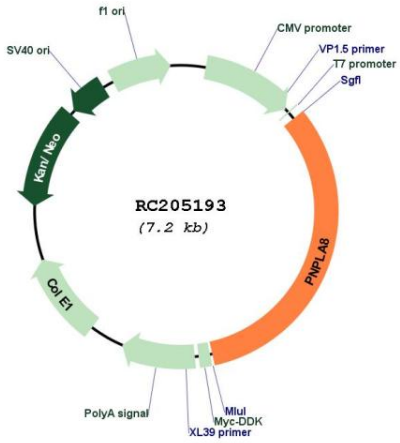
UniProt ID: Q9NP80

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 RC205193