OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC225603

NAPE PLD (NAPEPLD) (NM_001122838) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAPE PLD (NAPEPLD) (NM_001122838) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAPE PLD
Synonyms:	C7orf18; FMP30; NAPE-PLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC225603 representing NM_001122838
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGAAAATGAAAGCAACCAGTCTCTGATGACAAGCAGCCAATATCCTAAAGAAGCAGTAAGAAAAC
GTCAAAATTCAGCACGGAATTCCGGAGCAAGTGATTCTTCTAGGTTTTCTAGGAAAAGCTTCAAACTGGA
TTATAGACTAGAAGAAGATGTAACTAAATCCAAGAAAGGAAAAGATGGGAGATTTGTGAATCCGTGGCCA
ACATGGAAAAACCCCTCTATTCCAAATGTTCTCAGATGGCTGATAATGGAGAAAGATCACAGCAGTGTTC
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AGCTGGAGTGAGGGAAGCTGGCTTAAGAGTCACATGGCTGGGACATGCCACGGTAATGGTGGAAATGGAT
GAGCTCATATTTCTCACGGATCCCATCTTTAGCTCTCGTGCTTCACCATCGCAGTACATGGGTCCAAAGC
GATTTCGTCGTTCCCCGTGCACAATAAGTGAACTCCCTCCAATAGATGCGGTCCTTATCAGTCACAACCA
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GTGCCTTTGGGTCTCCTTGACTGGATGCAAAAATGTGGCTGTGAGAATGTGATTGAGTTGGACTGGTGGG
AGGAGAATTGTGTCCCCGGACATGATAAGGTCACTTTTGTCTTTACACCTTCCCAGCACTGGTGTAAAAG
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TGTAAGGATTCACACTGATGTCCAAACAAAGAAATCTATGGCAATTCACTGGGGAACTTTTGCCTTAGCA
AATGAGCATTACTTAGAGCCTCCAGTGAAGCTGAATGAAGCTCTAGAGAGATACGGACTTAACGCTGAAG
ATTTTTTTGTCTTGAAGCATGGAGAATCAAGATACCTAAATAATGATGATGAAAACTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

>RC225603 representing NM_001122838
Red=Cloning site Green=Tags(s)

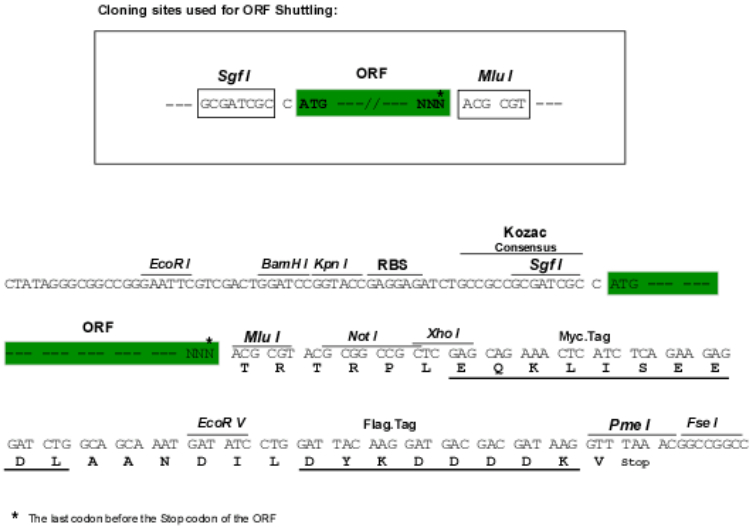
MDENESNQSLMTSSQYPKEAVRKRQNSARNSGASDSSRFSRKSFKLDYRLEEDVTKSKKGKDGRFVNPWP
TWKNPSIPNVLRWLIMEKDHSSVPSSKEELDKELPVLKPYFITNPEEAGVREAGLRVTWLGHATVMVEMD
ELIFLTDPIFSSRASPSQYMGPKRFRRSPCTISELPPIDAVLISHNHYDHLDYNSVIALNERFGNELRWF
VPLGLLDWMQKCGCENVIELDWWEENCVPGHDKVTFVFTPSQHWCKRTLMDDNKVLWGSWSVLGPWNRFF
FAGDTGYCPAFEEIGKRFGPFDLAAIPIGAYEPRWFMKYQHVDPEEAVRIHTDVQTKKSMAIHWGTFALA
NEHYLEPPVKLNEALERYGLNAEDFFVLKHGESRYLNNDDENF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6269_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001122838

ORF Size: 1179 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).

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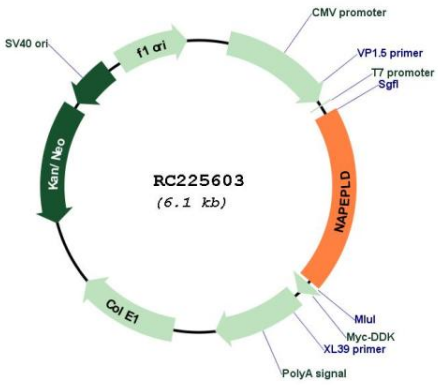
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001122838.2
RefSeq ORF:	1182 bp
Locus ID:	222236
UniProt ID:	Q6IQ20
Cytogenetics:	7q22.1
MW:	45.4 kDa
Gene Summary:	NAPEPLD is a phospholipase D type enzyme that catalyzes the release of N-acylethanolamine (NAE) from N-acyl-phosphatidylethanolamine (NAPE) in the second step of the biosynthesis of N-acylethanolamine (Okamoto et al., 2004 [PubMed 14634025]).[supplied by OMIM, Oct 2008]

Product images:



Circular map for RC225603

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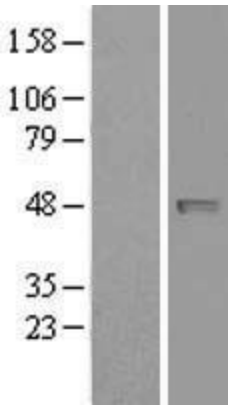
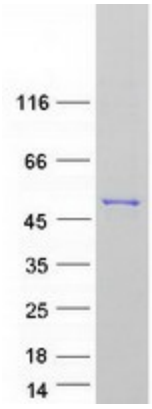


Western blot validation of overexpression lysate (Cat# [LY426574]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225603 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NAPEPLD protein (Cat# [TP325603]). The protein was produced from HEK293T cells transfected with NAPEPLD cDNA clone (Cat# RC225603) using MegaTran 2.0 (Cat# [TT210002]).

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