

Product datasheet for **RR209281**

Napepld (NM_199381) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Napepld (NM_199381) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Napepld
Synonyms:	NAPE-PLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209281 representing NM_199381 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAAAAATGAGAACAGCCAGTCTCCAGCGCCAAGCCATCAGTATCCAAAAGAACTGAGGAAGC
GTCAGAATTCAGTGCAGAATTCAGGAGGAAGCGAGTCTTCCAGGCTCTCCAGGAAAAGCTCAAGCTGGA
CTACAGACTGGAGGAGGACGTAACCAAAATCAAAGAAAGGAAAAGACGGGAGATTTGTGAACCCATGGCCA
ACGTGGAAGAACGTCTCTATCCAAACGTGCTCAGATGGCTGATAATGGAGAAGGATCACAGCAGTGTCC
CGGTTCCAAAGAGGAGCTTGACAAAGAACTCCAGTGTAAAGCCTATTTTATCAGTGACCCGGAAGA
AGCTGGAGTGAGAGAGGCTGGCCTACGAGTCACGTGGCTGGGACACGCGACGCTGATGGTGGAAATGGAC
GAGCTCATCCTCCTCACGGATCCCATGTTGAGCTCTCGAGCCTCTCCCTCGCAGTACATGGTCCGAAGC
GGTTCCGCGTCCCCGTGTACCAATAGCGAACTGCCCAATAGATGCTGTCTCATTAGTCACAACCA
CTACGACCACCTGGACTACGGCTCTGTCTGGCTGAAATGAACGGTTTGGCAGTGAGCTGAGGTGGTTC
GTGCCGCTGGGCTTCTCGACTGGATGCAGAAGTGTGGCTGTGAGAACGTGATTGAGCTCGACTGGTGGG
AGGAGAATTGCGTCCCTGGCCATGATAAGGTCACCTTCGTTTTACGCCCTCCCAACATTGGTGTAAAAG
GACCCCTCTGGATGACAACAAGTTCTGTGGGGCAGCTGGTCTGTGCTAGGGCCTTGAATCGGTTCTTT
TTCGCTGGGGATACTGGTTACTGCCCTGCTTTTGAAGAGATTGGAAAAAGTTTGGTCTTTTGACCTCG
CGCTATTCCCATTGGAGCTTATGAGCCAAGTGGTTTATGAAATACCAACATGCTGACCCAGAGGATGC
TGTAAGGATTCACATTGACGTTCAAGCCAAGAGATCCGTGGCGATTCACTGGGGGACTTTTGCTTAGCT
AATGAGCATTACTTAGAGCCCGGTTGAACTGAATGAAGCTCTAGAGAGATATGGACTCAAGAGTGAAG
ACTTCTCATCCTGAAGCACGGAGAGTACGATACTTGAATACCGATGACAAAGCCTTTGAGGAAACAAC
TTCTTCATCCTGAAGCACGGAGAGTACGATACTTGAATACCGATGACAAAGCCTTTGAGGAAACA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR209281 representing NM_199381
 Red=Cloning site Green=Tags(s)

MDENENSQSPAPSHQYPKETLRKRQNSVQNSGGSESSLRKSFKLDYRLEEDVTKSKKGDGRFVNPWP
 TWKNVSIPNVLRWLIMEKDHSSVPGSKEELDKELPVLKPYFISDPEEAGVREAGLRVTWLGHATLMVEMD
 ELILLTDPMFSSRASPSQYMGPKRFRPPCTISELPPIDAVLISHNHYDHLDYGSVLALNERFGSELRWF
 VPLGLLDWMQKCGCENVIELDWEENCVPGHDKVTFVFTPSQHWCKRTLDDNKVWGSWSVLGPWNRFF
 FAGDTGYCPAFEEIGKRFGPFDLAAIPIGAYEPRWFMKYQHADPEDAVRIHIDVQAKRSVAIHWGTFALA
 NEHYLEPPVKLNEALERYGLKSEDFILKHGESRYLNTDDKAFEETTSSS*STESHDT*IPMTKPLRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_199381

ORF Size: 1188 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 Size: 1191 bp

RefSeq ORF: 1191 bp

Locus ID: 296757

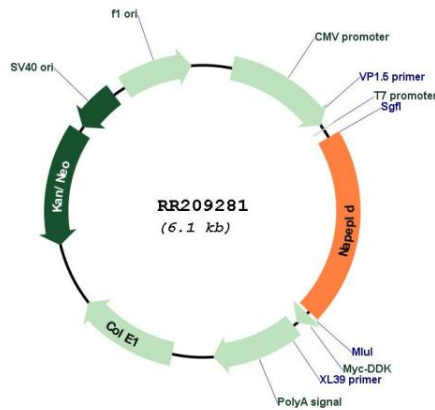
UniProt ID: [Q769K2](#)

Cytogenetics: 4q11

MW: 45.7 kDa

Gene Summary: an atypical phospholipase D that catalyzes the conversion of N-acyl-phosphatidylethanolamines to anandamide and other N-acylethanolamines but has no activity with phosphatidylcholine or phosphatidylethanolamine [RGD, Feb 2006]

Product images:



Circular map for RR209281