

Product datasheet for MR206211

Napepld (NM_178728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Napepld (NM_178728) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Napepld
Synonyms:	A530089G06; Mbldc1; NAPE-PLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206211 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGAGTATGAGGACAGCCAGTCTCCAGCGCCAAGCTATCAGTATCCAAAAGAACTGAGAAAGC
GCCAGAATTCAGTGCAGAATTCAGGAGGAAGTGTGCTTCTAGGTTCTCCAGGAAAAGCTCAAGCTGGA
TTACAGACTAGAGGAGGACGTAACATAAACAAGAAAGGAAAAGACGGGAGATTTGTTAACCATGGCCA
ACATGGAAAAACATCTCCATCCCGAATGTGCTCAGATGGCTGATAATGGAGAAGAATCACAGCGCGTTC
CAGGTTCCAAAGAGGAACCTTGACAAAGAGCTCCCGGTGCTTAAGCCATATTTTGCAGTGACCCTGAAGA
CGCTGGAGTGAGAGAGGCTGGCTTACGAGTCACGTGGCTGGGACATGCGACGCTGATGGTGGAAATGGAC
GAGCTCATCTTCTCACGGACCCATGTTGAGCTCCCGTGCCTCTCCCTCGCAGTACATGGTCCGAAGC
GGTTTCGCGCCCGCCGTGTACAATAAGCGAACTCCACAGATAGATGCTGCTCATCAGTCACAACCA
CTACGACCACCTAGACTACGGCTCGGTCTGGCGTTGAACGAGCGGTTCCGACGCGAGCTGCGGTGGTTT
GTGCCCTTGGGCTTCTTGACTGGATGCAGAAATGTGGCTGCGAGAACGTGATTGAGCTGGACTGGTGGG
AGGAGAACTGCGTCCCTGGCCACGACAAGGTACCTTCGCTTTCACGCCCTCCAGCACTGGTGCAAAAG
GACCCCTCTGGACGACAACAAGTTCTCTGGGGCAGCTGGTCCGTGCTAGGGCCTTGAGTGCATTCTTC
TTTGCTGGGGATACTGGCTACTGCCCGCTTTTGAAGAGATTGGAAAAGGTTTGGTCCCTTTGACCTTG
CGGCCATTCATCGGAGCTTATGAACCAAGTGGTTTATGAAATACCAGCATGCAGACCCAGAAGATGC
TGTAAGGATTCACATTGACCTTCAAACAAGAGATCTGTGGCGATTCACTGGGGGACGTTTGCCTTAGCT
AATGAGCATTACCTAGAGCCGCACTGAAACTGAATGAAGCTCTAGAGAGATACGACTTCTTGTGAGG
ATTTCTTCATACTGAAGCATGGAGAGTCGAGATACTTGAATACCGATGATAGAGCTTTTGAAGAAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR206211 protein sequence
 Red=Cloning site Green=Tags(s)

MDEYEDSQSPAPSYQYPKETLRKRQNSVQNSGGSVSSRFSRKSFKLDYRLEEDVTKSKKGDGRFVNPWP
 TWKNISIPNVLRWLIMEKNHSGVPGSKEELDKELPVLKPYFVSDPEDAGVREAGLRVTWLGHATLMVEMD
 ELIFLTDPMFSSRASPSQYMGPKRFRPPCTISELPTIDAVLISHNHYDHLDYGSVLALNERFGSELRWF
 VPLGLLDWMQKCGCENVIELDWEENCVPGHDKVTFVFTPSQHWCKRTLDDNKVWGSWSVLGPWSRFF
 FAGDTGYCPAFEEIGKRFGPDFLAAIPIGAYEPRWFMKYQHADPEDAVRHHIDLQTKRSVAIHWGTFALA
 NEHYLEPPVKLNEALERYGLSCEDFFILKHGESRYLNTDDRAFEET

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_178728

ORF Size: 1191 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_178728.6](#)

RefSeq Size: 3673 bp

RefSeq ORF: 1191 bp

Locus ID: 242864

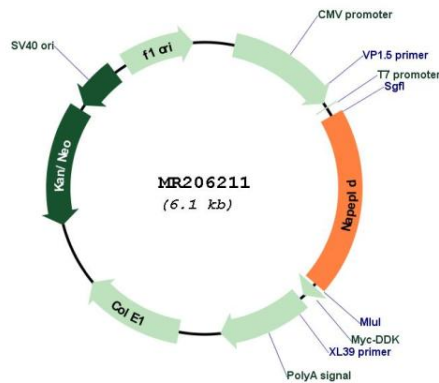
UniProt ID: [Q8BH82](#)

Cytogenetics: 5 A3

MW: 45.8 kDa

Gene Summary: Hydrolyzes N-acyl-phosphatidylethanolamines (NAPEs) to produce N-acylethanolamines (NAEs) and phosphatidic acid. Responsible for the generation of these bioactive fatty acid ethanolamides (FAEs), including anandamide (N-arachidonoylethanolamine), the ligand of cannabinoid and vanilloid receptors (PubMed:14634025). As a regulator of lipid metabolism in the adipose tissue, mediates the crosstalk between adipocytes, gut microbiota and immune cells to control body temperature and weight. In particular, regulates energy homeostasis by promoting cold-induced brown or beige adipocyte differentiation program to generate heat from fatty acids and glucose (PubMed:25757720).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206211