

Product datasheet for **RG229073**

NTE (PNPLA6) (NM_001166113) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NTE (PNPLA6) (NM_001166113) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PNPLA6
Synonyms: BNHS; iPLA2delta; LNMS; NTE; NTEMND; OMCS; SPG39; sws
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229073 representing NM_001166113
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTCCGCTGCAAACCTGGAATGGTGTGGCGTGATGATCGGGGCCGGAGTGGCGGTGGTGGTCA
CGGCCGTGCTCATCTCTGGTGGTGGGAGGCTGCGAGTGCCAAAAACCCAGCCCGGATGGCCCCG
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ACCTCTCCCTCGTGGATACCTCTGTCTCGCCACCTCCCGCCACGCATGAGGAAGAACTGAAGATGC
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CGCAGTGCTAGAAGCTGACCTGACCGAGGGCGACCTGGCTAACTCCCATCTGCCCTCTGAAGTGCTTTAT
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CACCAAGTACCCGAGAGCTTGGTGCGGTCTGACCAATGAGCTTTCAGCCACGAGATCCAGCCCCGCTGTCT
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GTGATTTCTCCGGCAACGACGCTGTCTGCCCCAGGAGCCGCCGGCTCAGCCACAGATGCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229073 representing NM_001166113
 Red=Cloning site Green=Tags(s)

MEAPLQTMVLGVMIGAVVVVAVLILLVRRRLRVPKTPAPDGPYRFRKRDKVLFYGRKIMRKVSQS
 TSSLVDTSVSATSRRPMRKKLKMNI AKKILRIQKETPTLQRKEPPPAVLEADL TEGDLANSHLPSEVLY
 MLKNVRVLGHF EKPLFLELCRHMV FQRLGQGDYVFRPGQPDASIYVVQDGLLELCLPGPDGKECVKVV
 PGDSVNSLLSILDVITGHQHPQRTVSARAARDSTVLRRLPVEAFSAVFTKYPESLVRVVQIIMVRLQRVTF
 LALHNYLGLTNELFSHEIQPLRFLFSPGLPTRTSPVVRGSKRMVSTSATDEPRETPGRPPDPTGAPLPGPT
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 IARQGDQDVSLHFVWGLHVVYQRMIDKAEDVCLFVAQPGELVGQLAVLTGEPLIFTLRAQRDCTFLRIS
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 KILGNLQQLQGPF PAGSGLGVP PHSSEL TNPASNLATVAI LPVCAEVP MVAFTLELQHALQAIGPTLLLS
 DIIRARLGASALDSIQEFRLSGWLAQQEDAHRIVLYQTDASLTPWTVRCLRQADCILIVGLGDQEPTLGQ
 LEQMLENTAVRALKQLVLLHREEGAGPTRTVEWLNMRSWCSGHLHLRCPRLFSRRSPAKLHELKYEKVS
 RRADRHSDFSRLARVLTGNTIALVLGGGARGCSHIGVLKALEEAGVPVDLVGGTSIGSFIGALYAEERS
 ASRTRQRAREWAKSMTSVLEPVLDTYPVTSMTGSAFNRSIHRVFQDKQIEDLWLPYFNVTTDITASAM
 RVHKDGS LWRYRASMTLSG YLPPLCDPKDGHLLMDGGYINNL PADIARSMGAKTVIAIDVGSQDETDLS
 TYGDSL SGWLLWKRLNPWADKVKVPDMAEIQSRLAYVSCVRQLEVVKSSSYCEYL RPPIDCFKTMDFGK
 FDQIYDVG YQYGA VFGGWSRGNVIEKMLDRRSTDLNESRRADVLAFPSSGFTDLAEIVSRIEPPTSYV
 SDGCADGEESDCLTEYEEDAGPDCSRDEGGSP EGASPSTASEMEEKSILRQRRLPQEPGGSATDA

TRTRPLE - GFP Tag - V

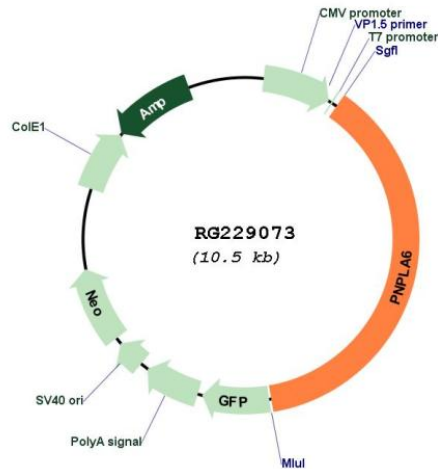
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001166113

ORF Size: 3981 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_001166113.1](#), [NP_001159585.1](#)

RefSeq Size: 4478 bp

RefSeq ORF: 3984 bp

Locus ID: 10908

UniProt ID: [Q8IY17](#)

Cytogenetics: 19p13.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a phospholipase that deacetylates intracellular phosphatidylcholine to produce glycerophosphocholine. It is thought to function in neurite outgrowth and process elongation during neuronal differentiation. The protein is anchored to the cytoplasmic face of the endoplasmic reticulum in both neurons and non-neuronal cells. Mutations in this gene result in autosomal recessive spastic paraplegia, and the protein is the target for neurodegeneration induced by organophosphorus compounds and chemical warfare agents. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]