

Product datasheet for **RG228668**

NTE (PNPLA6) (NM_001166112) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NTE (PNPLA6) (NM_001166112) 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: >RG228668 representing NM_001166112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCTCCGCTGCAAACCTGGAATGGTGTGGCGTGATGATCGGGGCCGGAGTGGCGGTGGTGGTCA
 CGGCCGTGCTCATCCTCCTGGTGGTGGCGGAGGCTGCGAGTGCCAAAAACCCAGCCCCGGATGGCCCCCG
 GTATCGGTTCCGGAAGAGGGACAAAGTGTCTTCTATGGCCGGAAGATTATGCGGAAGGTGTCAAAATCC
 ACCTCCTCCCTCGTGGATACCTCTGTCTCCGCCACCTCCCGCCACGCATGAGGAAGAACTGAAGATGC
 TCAACATTGCCAAGAAGATCCTGCGCATCCAGAAAGAGACGCCACGCTGCAGCGGAAGGAGCCCCGCC
 CGCAGTGCTAGAAGCTGACCTGACCGAGGGCGACCTGGCTAACTCCCATCTGCCCTCTGAAGTGCTTTAT
 ATGCTCAAGAACGTCCGGGTGCTGGGCCACTTCGAGAAGCCACTTTCCTGGAGCTCTGCCGCCACATGG
 TCTTCCAGCGGCTGGGCCAGGGTACTACGTCTTCCGGCCGGGCCAGCCAGATGCCAGCATCTACGTGGT
 GCAGGACGGGCTGCTGGAGCTCTGTCTGCCAGGGCCTGACGGGAAGGAGTGTGTGGTGAAGGAAGTGGT
 CCTGGGGACAGCGTCAACAGCCTTCTCAGCATCCTGGATGTCATCACCGTACCAGCATCCCCAGCGGA
 CCGTGTCTGCCCGGGCGGCCGGGACTCCACGGTGTGCGCTGCCGGTGAAGCATTCTCCGGGTCTT
 CACCAAGTACCCGAGAGCTTGGTGCGGTGTGCGAGATCATGTTGCGGCTGCAGCGAGTACCTTC
 CTGGCACTGCACAACTACCTGGGTGACCAATGAGCTTTCAGCCAGAGATCCAGCCCCGCTGCTGT
 TCCCCAGCCCCGGCCTCCAACTCGCACCAGCCCTGTGCGGGCTCCAAGAGAATGGTCAAGCCTCAGC
 TACAGACGAGCCAGGGAGACCCAGGGCGGCCACCCGATCCCACCGGGGCCCGCTGCCTGGACCTACA
 GGGGACCTGTGAAGCCACATCCTGGAACCCCTCGGCCCTCTGCTGAGCCGCTGCGTCTCCATGC
 CAGGGGACATCTCAGGCTTGCAGGGTGGCCCCGCTCCGACTTCGACATGGCCTATGAGCGTGGCCGGAT
 CTCCGTGTCCCTGCAGGAAGAGGCTCCGGGGGTCCCTGGCAGCCCCGCTCGGACCCCCACTCAGGAG
 CCTCGTGAGCAGCCGGCAGGCGCTGTGAATACAGCTACTGTGAGGATGAGTCGGCCACTGGTGGCTGCC
 CTTTCGGGCCCTACCAGGGCCGACAGCAGCATCTTCGAGGAGCAAGCAGGAGCTGGCCAAGCT
 GATCGGATTGAGGACGTGAGCCTGCATTCGTGCTCTGGGGTCCCTGCAGTGTACCAGCGCATGATC



[View online >](#)

GACAAGGCGGAGGACGTGTGCCTGTTTCGTAGCGCAGCCCGGGAAGTGGTGGGGCAGCTGGCGGTGCTCA
 CTGGCGAACCTCTCATCTTCACACTGCGAGCCCAACGCGACTGCACCTTCTGCGGATCTCCAAGTCCGA
 CTTCTATGAGATCATGCGCGCACAGCCAGTGTGGTGTGAGTGCGGCGCACACGGTGGCAGCCAGGATG
 TCGCCCTTCGTGCGCCAGATGGACTTCGCCATCGACTGGACTGCAGTGGAGGCGGGACGCGCGCTGTACA
 GGCAGGGCGACCGCTCCGACTGCACTTACATCGTGCTCAATGGGCGGTGCGTAGCGTGATCCAGCGAGG
 CAGTGGCAAGAAGGAGCTGGTGGGCGAGTACGGCCGCGGCGACCTCATCGGCGTGGTGGAGGCACCTGACC
 CGGCAGCCGCGAGCCACGACGGTGCACGGTGCAGCGGACGAGCTGGCCAAGTTCGCGAGGGCACCT
 TGGGTACATCAAACGCGGTACCCGACAGTCTGACCCGCTTATCCACCTACTGAGCCAGAAAATTCT
 AGGGAATTTGCAGCAGCTGCAAGGACCCTTCCAGGCTCTGGGTTGGGTGTGCCCCACACTCGGAAGTCT
 ACCAACCCAGCCAGAACCTGGCAACTGTGGCAATCCTGCCTGTGTGTGAGTCCCCATGGTGGCT
 TCACGCTGGAGCTGCAGCAGCCCTGCAGGCCATCGGTCCGACGCTACTCCTAACAGTGACATCATCCG
 GGCACGCTGGGGCCTCCGCACTGGATAGCATCCAAGAGTTCGGGTGTGAGGTGGTGGCCAGCAG
 GAGGATGCACACCGTATCGTACTCTACCAGACGGACGCTCGTACGCCCTGGACCGTGCCTGCCTGC
 GACAGGCCGACTGCATCCTCATTGTGGGCTGGGGGACCAGGAGCCTACCCTCGCCAGCTGGAGCAGAT
 GCTGGAGAACACGGCTGTGCGCGCCCTAAGCAGCTAGTCTGCTCCACCAGAGAGGGGCGGGGCCCC
 ACGCGCACCGTGGAGTGGCTAAATATGCGCAGCTGGTGTCTGGGGCACCTGCACCTGCGCTGTCCGCGCC
 GCCTCTTTTCGCGCCGACGCCCTGCCAAGCTGCATGAGCTCTACGAGAAGTTTTCTCCAGGCGCGCGGA
 CCGGCACAGCGACTTCTCCCGCTTGGCGAGGGTGTCTACGGGGAACACCTTGGCCCTGTGTAGGCGGG
 GGGCGGGCCAGGGGCTGTCTGCACATCGGAGTACTAAAGGCATTAGAGGAGGGCGGGGTCGCCGTGGACC
 TGGTGGGCGGCACGTCCATTGGCTCTTTCATCGGAGCGTGTACGCGGAGGAGCGCAGCGCCAGCCGCAC
 GAAGCAGCGGGCCGGGAGTGGGCCAAGAGCATGACTTCGGTGTGGAACCTGTGTTGGACCTCACGTAC
 CCAGTACCTCCATGTTCACTGGGTCTGCCTTAAACCGCAGCATCCATCGGGTCTTCCAGGATAAGCAGA
 TTGAGGACCTGTGGTGCCTTACTTCAAGTGTGACACAGATATCACCGCCTCAGCCATGCGAGTCCACAA
 AGATGGCTCCCTGTGGCGGTACGTGCGCGCCAGCATGACGCTGTGCGGGTACCTGCCCGGCTGTGCGGAC
 CCCAAGGACGGGCACCTACTCATGGATGGCGGCTACATCAACAATCTGCCAGCGGACATCGCCCGCAGCA
 TGGGTGCCAAAACGGTCACTCGCCATTGACGTGGGGAGCCAGGATGAGACGGACCTCAGCACCTACGGGGA
 CAGCCTGTCCGGCTGGTGGCTGTGTGGAAGCGGCTGAATCCCTGGGCTGACAAGGTAAGGTTCCAGAC
 ATGGCTGAAATCCAGTCCCGCTGGCCTACGTGTCTGTGTGCGGCAGCTAGAGGTTGTCAAGTCCAGCT
 CCTACTGCGAGTACCTGCGCCCGCCATCGACTGCTTCAAGACCATGGACTTTGGGAAGTTCGACCAGAT
 CTATGATGTGGGCTACCAGTACGGGAAGGCGGTGTTGGAGGCTGGAGCCGTGGCAACGTCATTGAGAAA
 ATGCTCACAGACCGGCGTCTACAGACCTAATGAGAGCCGCGTGCAGACGTGCTTGCCTTCCCAAGCT
 CTGGCTTCACTGACTTGGCAGAGATTGTGTCCCGATTGAGCCCCACGAGCTATGTCTCTGATGGCTG
 TGCTGACGGAGAGGAGTCAATTGTCTGACAGAGTATGAGGAGGACCGCGGACCCGACTGCTCGAGGGAT
 GAAGGGGGGTCCCCGAGGGCGCAAGCCCCAGCACTGCCTCCGAGATGGAGGAGGAGAAGTCGATTCTCC
 GGCAACGACGCTGTCTGCCCCAGGAGCCCGCGGCTCAGCCACAGATGCC

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228668 representing NM_001166112
 Red=Cloning site Green=Tags(s)

MEAPLQTGMVLGVMIGAVVVVAVLILLVRRRLRVPKTPAPDGPYRFRKRDKVLFYGRKIMRKVSQS
 TSSLVDTSVSATSRRPMRKKLMLNIAKKILRIQKETPTLQRKEPPPAVLEADL TEGDLANSHLPSEVLY
 MLKNRVVLGHFEKPLFLELCRHMVFQRLGQGDYVFRPGQPDASIYVVQDGLLELCLPGPDGKECVVKEVV
 PGDSVNSLLSILDVITGHQHPQRTVSARAARDSTVLRRLPVEAFSAVFTKYPESLVRVVQIIMVRLQRVTF
 LALHNYLGLTNELFSHEIQPLRFLPSPGLPTRTSPVVRGSKRMVSTSATDEPRETPGRPPDPTGAPLPGPT
 GDPVKPTSLETPSAPLLSRCVSMPGDISGLQGGPRSDFDMAYERGRISVSLQEEASGGS LAAPARTPTQE
 PREQPAGACEYSYCEDESATGGCPFGPYQGRQTSSIFEAAKQELAKLMRIEDVSLHFVWGLHVYQRM
 DKAEDVCLFVAQPGELVGQLAVLTGEPLIFTLRAQRDCTFLRISKSDFYEMRAQPSVLSAAHTVAARM
 SPFVRQMDFAIDWAVEAGRALYRQGDRSDCTYIVLNGRLRSVIQRGSGKKELVGEYGRGDLIGVVEALT
 RQPRATTVHAVRDELAKLPEGTLGHIKRRYPQVVTRLIHLLSQIKLGNLQQLQGPFGSGLGVPHPSEL
 TNPASNLATVAILPVCAEVPMAVFTLELQHALQAIGPTLLNSDIIRARLGASALDSIQEFRLSGWLAQQ
 EDARIIVLYQTDASLTPWTVRCLRQADCILIVGLGDQEP TLGQLEQMLENTAVRALKQLVLLHREEGAGP
 TRTVEWLNMRSWCSGHLHLRCPRLFRRSPAKLHELKYEKVFRRADRHSDFSRLARVLTGNTIALV LGG
 GGARGCSHIGVLKALEEAGVPVDLVGGTSGSFGALYAEERSASRTKQAREWAKSMTSVLEPVLDTY
 PVTSMFTGSAFNRSIHRVFQDKQIEDLWLPYFNVTDDITASAMRVHKDGS LWRYVRASMTLSGYPPLCD
 PKDGHLMDGGYINNLPAIARSMGAKTVIAIDVGSQDETDLSTYGDLSGWLLWKRLNPWADKVKVPD
 MAEIQSRLAYVSCVRQLEVVKSSSYCEYL RPPIDCFKTMDFGKFDQIYDVGYQYKAVFGGWSRGNVIEK
 MLTDRRSTDLNESRRADVLAFSSGFTDLAEIVSRIEPPTSYSVSDGCADGEE SDCLTEYEEDAGPDCSRD
 EGGSPGASPTASEMEEKSI LRQRCLPQEP PG SATDA

TRTRPLE - GFP Tag - V

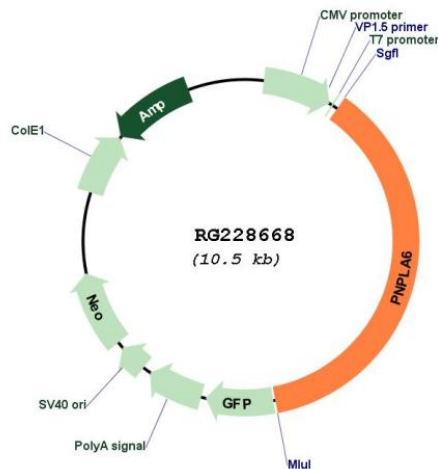
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001166112

ORF Size: 3900 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_001166112.1](#), [NP_001159584.1](#)

RefSeq Size: 4526 bp

RefSeq ORF: 3903 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]