

## Product datasheet for **RG228676**

### NTE (PNPLA6) (NM\_001166114) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NTE (PNPLA6) (NM_001166114) 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:	>RG228676 representing NM_001166114 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACATCGAGTCACGGGCTGGCTACGAACCTCTCGGGGGCGAAGGTGGCGGAGAGGGATGGGTTCC  
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CAGACCAGCAGCATCTTCGAGGCAGCAAAGCAGGAGCTGGCCAAGCTGATGCGGATTGAGGACCCCTCCC  
TCCTGAACAGCAGAGTCTTGCTGCACCACGCCAAAGCTGGCACCATTGCCCCCAGGGAGACCAGGA  
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TGCCCCAGGAGCCGCGGCTCAGCCACAGATGCC

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228676 representing NM\_001166114  
 Red=Cloning site Green=Tags(s)

MGTSSHGLATNSSGAKVAERDGFQDVLAPGEGSAGRICGAQPVFPVQVLGVMIGAGVAVVVTAVLILLV  
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 NLATVAILPVCAEYPMVAFTLELQHALQAIGPTLLLNSDIIRARLGASALDSIQEFRLSGWLAQQEDAHR  
 IVLYQTDASLTPWTVRCLRQADCLIVGLGDQEP TLGQLEQMLENTAVRALKQLVLLHREEGAGPTRTVE  
 WLNMRWCSGHLHLRCPRLFSRRSPAKLHELKYEKFSRRADRHSDFSRLARVL TGNTIALVLGGGGARG  
 CSHIGVLKALEEAGVPVDLVGGTSIGSFIGALYAEERSASRTKQAREWAKSMTSVLEPVLDTYPVTSM  
 FTGSAFNRSIHRVFQDKQIEDLWLPYFNVTDDITASAMRVHKDGLWRYVRSMTLSGYLPPLCDPKDGH  
 LLMGGYINNLADIARSMGAKTVIAIDVGSQDETDLSTYGDLSGWLLWKRLNPWADKVKVPDMAEIQ  
 SRLAYVSCVRQLEVVKSSSYCEYL RPPIDCFKTMDFGKFDQIYDVGYYGKAVFGWVSRGNVIEKMLTDR  
 RSTDLNESRRADVLAFPSSGFTDLAEIVSRIEPTTSYVSDGCADGEE SDCLTEYEEDAGPDCSRDEGGSP  
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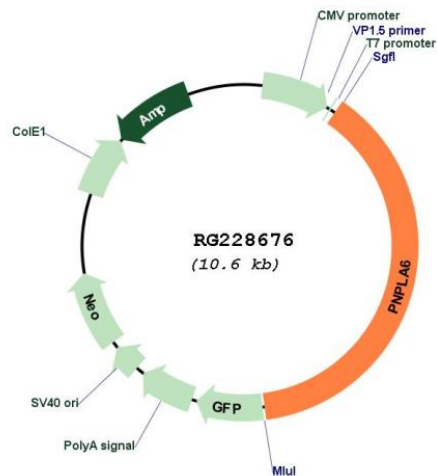
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001166114

**ORF Size:** 4095 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\\_001166114.2](#)

**RefSeq Size:** 4407 bp

**RefSeq ORF:** 4098 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]