

## Product datasheet for **RG233074**

### **PNPLA8 (NM\_001256010) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PNPLA8 (NM_001256010) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PNPLA8
Synonyms:	IPLA2-2; IPLA2G; iPLA2gamma; MMLA; PNPLA-gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG233074 representing NM\_001256010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCCGTATTTAAAAGTACTTTGAACTCTGTTTCAAAGGCTGTTTTGGCAATCAAATGAAATGATTT  
 CAGTTTTAGCTCAATTTAAGCCAAGTTCCCAAATTTAAGAAAAGTATCGGATAGTGGCTGGTTAAACA  
 GAAAAACATCAAACAAGCCATCAATCTCTGAAAAATATAAGTGACAAATCAGCAGAAAAGAGTCTTTTT  
 CCAGAAGAGAAAAGTACATTATAGACAAAAGAAGATATAGGTAAACGCAGTCTTTTTTATTACACAA  
 GTTCTATAACCAAAAATTTGGAGACTATTCTACTTTTTATCAAATCATATTAATTCATATTTCAAACG  
 TAAGGAAAAATGTCTCAACAAAAGGAAAATGAACATTTCCGGGACAAATCAGAAGTTGAAGATAAAAAG  
 GTAGAAGAGGGGAAATTAAGATCTCCAGATCCTGGCATCTGGCTATAAGCCAGGCTCAGAATCTGTAC  
 ATACGGTGGACAAGCCTACAAGTCTTCTGCGATACCTGATGTTCTTCAAGTTTCAACTAAACAAAGTAT  
 TGCTAACTTTCTTCTCGTCCCACGGAAGGTGTACAAGCTTTAGTAGGTGTTATATTGGTGGACTTGTC  
 CCCAAATTAAGTATGATTCAAAGAGTCACTCAGAAGAACAGGAAGAGCCTGCTAAAAGTATCAGGCTG  
 TCAGCAAAGACAGAAATGCAGAGGAGAAAAAGCGTTTATCTCTTTCAGCGAGAAAAGATTATCGCAAGGGT  
 GAGTATTGATAACAGGACCCGGGCATTAGTTTCAGGCATTAAGAAGAACTGACCCAAAGCTCTGCATT  
 ACTAGGGTTGAAGAACTGACTTTTCATCTTCTAGAATTTCTGAAGGAAAAGGAGTGGCTGTCAAGGAAA  
 GAATTATTCATATTTATTACGACTGAGACAAATTAAGGATGAACTCTTCAGGCTGCAGTTAGAGAAA  
 TTTGGCCCTAATTGGCTATGTGGATCCAGTGAAAGGGAGAGGAATCCGAATCTCTCAATTGATGGTGA  
 GGAACAAGGGCGTGGTTGCTCTCCAGACCCTACGAAAATTAGTTGAACCTACTCAGAAGCCAGTTCATC  
 AGCTCTTTGATTACATTTGTGGTGAAGCACAGTGCCATATTAGCTTTTCATGTTGGGTTGTTTCATAT  
 GCCCTTGGATGAATGTGAGGAACTTTATCGAAAATTAGGATCAGATGTATTTTACAAAAATGTCATTGTT  
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 TCTCATTATTTGGGAGGCTGTCAGTATAAAATGTGGCAGGCCATTAGAGCCTCATCTGCTGCTCCAGGCT  
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 GGACGTTATGAGAGTGTGTGAGAAACACGGTAACATACACAAGCTTGAAAACAACTTTCTAATGTTA  
 TCAACAGTGTACAGATACAGAAGAAGTCCATATAATGCTTGATGGCCTGTTACCTCCTGACACCTATTT  
 TAGATTCAATCCTGTAATGTGTGAAAAACATACCTTAGATGAAAGTCGAAATGAAAAGCTGGATCAGCTG  
 CAGTTGGAAGGGTTGAAATACATAGAAAAGAAATGAACAAAAATGAAAAAGTTGCAAAAATATTAAGTC  
 AAGAAAAACAACCTCTGCAGAAAATTAATGATTGGATAAAATTA AAAACTGATATGTATGAAGGACTTCC  
 ATTCTTTTCAAATTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG233074 representing NM\_001256010  
 Red=Cloning site Green=Tags(s)

MSRIKSTLNSVSKAVFGNQNMISRLAQFKPSSQILRKVSDSGWLKQKNIKQAIKSLKKYSDKSAEKSPF  
 PEEKSHIIDKEEDIGKRSLFHYTSSITTKFGDSFYFLSNHINSYFKRKEKMSQQKENEHFRDKSELEDKK  
 VEEGKL RSPDPGILAYKPGSESVHTVDKPTSPSAIPDVLQVSTKQSIANFLSRPTEGVQALVGGYIGGLV  
 PKLKYDSK SQSEEQEEPAKTDQAVSKDRNAEKKRLSLQREKIIARV SIDNRTRALVQALRRTTDPKLCI  
 TRVEELTFHLLFPEGKGVAVKERIIPYLLRLRQIKDETLQAAREILALIGYVDPVKGRGIRILSIDGG  
 GTRGVVALQTLRKLVELTQKPVHQLFDYICGVSTGAILAFMLGLFHMP LDECEELYRKLGSDVFSQNVIV  
 GTVKMSWSHAFYDSQTWENILKDRMG SALMIETARNPTCPKVA AVSTIVNRGITPKAFVFRNYGHFPGIN  
 SHYLGQCQYKMWQAIRASSAAPGYFAEYALGNDLHQDGG LLLNNSALAMHECKLWPDVPLECIVSLGT  
 GRYESDVRNTVYTS LTKLSNVINSATDTEEVHIMLDGLLPPD TYFRFNPVMCENIPLDESRNEKLDQL  
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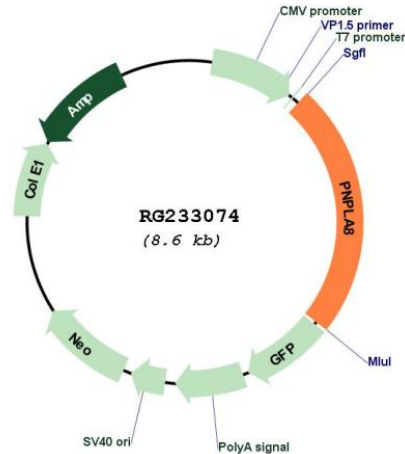
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001256010

**ORF Size:** 2046 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\\_001256010.3](#)

**RefSeq Size:** 4574 bp

RefSeq ORF: 2049 bp

Locus ID: 50640

UniProt ID: [Q9NP80](#)

Cytogenetics: 7q31.1

**Gene Summary:** This gene encodes a member of the patatin-like phospholipase domain containing protein family. Members of this family are phospholipases which catalyze the cleavage of fatty acids from membrane phospholipids. The product of this gene is a calcium-independent phospholipase. Mutations in this gene have been associated with mitochondrial myopathy with lactic acidosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2015]