

Product datasheet for **RG233075**

PNPLA8 (NM_001256011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA8 (NM_001256011) 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:

>RG233075 representing NM_001256011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCCGTATTTAAAAGTACTTTGAACTCTGTTTCAAAGGCTGTTTTGGCAATCAAATGAAATGATTT
 CAGTTTTAGCTCAATTTAAGCCAAGTTCCCAAATTTAAGAAAAGTATCGGATAGTGGCTGGTTAAACA
 GAAAAACATCAAACAAGCCATCAATCTCTGAAAAATATAAGTGACAAATCAGCAGAAAAGAGTCTTTTT
 CCAGAAGAGAAAAGTACATTATAGACAAAAGAAGATATAGGTAAACGCAGTCTTTTTTATTACACAA
 GTTCTATAACCAAAAATTTGGAGACTATTCTACTTTTTATCAAATCATATTAATTCATATTTCAAACG
 TAAGGAAAAATGTCTCAACAAAAGGAAAATGAACATTTCCGGGACAAATCAGAAGTTGAAGATAAAAAG
 GTAGAAGAGGGGAAATTAAGATCTCCAGATCCTGGCATCTGGCTATAAGCCAGGCTCAGAATCTGTAC
 ATACGGTGGACAAGCCTACAAGTCTTCTGCGATACCTGATGTTCTTCAAGTTTCAACTAAACAAAGTAT
 TGCTAACTTTCTTCTCGTCCCACGGAAGGTGTACAAGCTTTAGTAGGTGTTATATTGGTGGACTGTGC
 CCCAAATTAAGTATGATTCAAAGAGTCACTCAGAAGAACAGGAAGAGCCTGCTAAAAGTATCAGGCTG
 TCAGCAAAGACAGAAATGCAGAGGAGAAAAAGCGTTTATCTCTTTCAGCGAGAAAAGATTATCGCAAGGGT
 GAGTATTGATAACAGGACCCGGGCATTAGTTTCAGGCATTAAGAAGAACTGACCCAAAGCTCTGCATT
 ACTAGGGTTGAAGAACTGACTTTTCATCTTCTAGAATTTCTGAAGGAAAAGGAGTGGCTGTCAAGGAAA
 GAATTATTCATATTTATTACGACTGAGACAAATTAAGGATGAACTCTTCAGGCTGCAGTTAGAGAAA
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 GGAACAAGGGCGTGGTTGCTCTCCAGACCCTACGAAAATAGTTGAACCTACTCAGAAGCCAGTTCATC
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 GCCCTTGGATGAATGTGAGGAACTTTATCGAAAATTAGGATCAGATGTATTTTCACAAAATGTCATTGTT
 GGAAACAGTAAAAATGAGTTGGAGCCATGCATTTTATGACAGTCAAACATGGGAAAACATTCTTAAGGATA
 GGATGGGATCTGCACTGATGATTGAAACAGCAAGAAACCCACATGTCCTAAGGTAGCTGCTGTAAGTAC
 CATAGTAAATAGAGGGATAACACCCAAAGCTTTTGTGTTTCAGAACTATGGTCATTTTCTGGAATCAAC
 TCTCATTATTTGGGAGGCTGTCAGTATAAAATGTGGCAGGCCATTAGAGCCTCATCTGCTGCTCCAGGCT
 ACTTTGCAGAATATGCATTGGGAAATGATCTTCATCAAGATGGAGGTTTGCTTCTGAATAACCTTCGGC
 ATTAGCTATGCATGAGTGTAAATGTCTTTGGCCAGATGTGCCGTTAGAGTGCATAGTATCCCTGGGCACT
 GGACGTTATGAGAGTGTGTGAGAAACACGGTAACATACACAAGCTTGAAAACAACTTTCTAATGTTA
 TCAACAGTGTACAGATACAGAAGAAGTCCATATAATGCTTGATGGCCTGTTACCTCCTGACACCTATTT
 TAGATTCAATCCTGTAATGTGTGAAAACATACCTTAGATGAAAGTCGAAATGAAAAGCTGGATCAGCTG
 CAGTTGGAAGGTTGAAATACATAGAAAAGAAATGAACAAAAATGAAAAAGTTGCAAAAATATTAAGTC
 AAGAAAAACAACCTCTGCAGAAAATTAATGATTGGATAAAATTA AAAACTGATATGTATGAAGGACTTCC
 ATTCTTTTCAAATTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233075 representing NM_001256011
 Red=Cloning site Green=Tags(s)

MSRIKSTLNSVSKAVFGNQNMISRLAQFKPSSQILRKVSDSGWLKQKNIKQAIKSLKKYSDKSAEKSPF
 PEEKSHIIDKEEDIGKRSLFHYTSSITTKFGDSFYFLSNHINSYFKRKEKMSQQKENEHFRDKSELEDKK
 VEEGKL RSPDPGILAYKPGSESVHTVDKPTSPSAIPDVLQVSTKQSIANFLSRPTEGVQALVGGYIGGLV
 PKLKYDSK SQSEEQEEP AKTDQAVSKDRNAEKKRSLQREKIIARV SIDNRTRALVQALRRTTDPKLCI
 TRVEELTFHLLFPEGKGVAVKERIIPYLLRLRQIKDETLQAAREILALIGYVDPVKGRGIRILSIDGG
 GTRGVVALQTLRKLVELTQKPVHQLFDYICGVSTGAILAFMLGLFHMP LDECEELYRKLGSDVFSQNVIV
 GTVKMSWSHAFYDSQTWENILKDRMG SALMIETARNPTCPKVA AVSTIVNRGITPKAFVFRNYGHFPGIN
 SHYLGGCQYKMWQAIRASSAAPGYFAEYALGNDLHQDGG LLLNNSALAMHECKLWPDVPLECIVSLGT
 GRYESDVRNTVTYTS LTKLSNVINSATDTEEVHIMLDGLLPPD TYFRFNPVMCENIPLDESRNEKLDQL
 QLEGLKYIERNEQKMKK VAKILSQEKTTLQKINDWIKLKTDMYEGLPFFSKL

TRTRPLE - GFP Tag - V

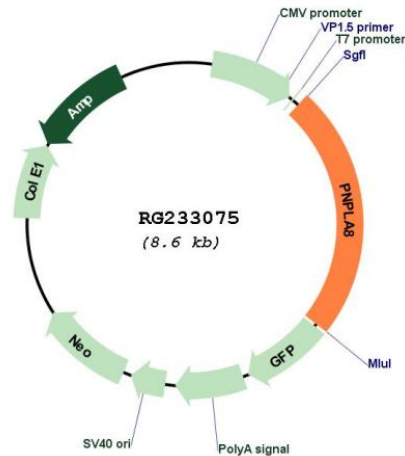
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001256011

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_001256011.3](#)

RefSeq Size: 4435 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]