

Product datasheet for **RR213572**

Pnlip (NM_013161) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnlip (NM_013161) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnlip
Synonyms:	PANLI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR213572 representing NM_013161
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGATGCTGTGGACATTTGCAGTGTCTGGGAGCAGTAGCTGGAAAAGAAGTTTGCTTTGACAAAC
 TCGGCTGCTTCAGTGATGATGCCCGTGGTCAGGAACCATAGACAGACCCTGAAAGCACTGCCCTGGAG
 CCCAGCACAGATCAACACCCGCTTTCTCCTCTACACCAACGAGAACCAAGACAACCTACCAGAAAATTACT
 TCAGATGCATCGAGTATCAGAACTCCAATTTCAAACGAACAGAAAAACCCGCATCATTATCCACGGCT
 TCATTGACAAGGGAGAGGAGAAGTGGCTATCTGACATGTGCAAGAACATGTTCAAAGTGGAGAGTGTGAA
 CTGCATCTGTGTGGACTGGAAAGGTGGCTCCCGGGCTACATACACCAGGCTACCCAGAAGTCCGGGTC
 GTGGGTGCAGAAGTGGCATTATTGGTTAACGTTCTGAAGTCTGACCTCGGTCATCCACCTGACAACGTCC
 ACCTGATTGGCCACAGCCTGGGTTCCACGTTGCTGGGGAGGCAGGAAAGAGGACATTCCGAGCTATTGG
 GAGGATCACAGGGTTGGACGCGGCTGAACCTTACTTCCAGGGCACACCTGAAGAAGTCCGCTGGACCCC
 ACCGATGCCAGTTTGTGGATGCAATTCACACAGATGCTGCACCCATCATCCCCAACTTAGGATTTGGAA
 TGAGCCAGACTGTGGTACCTAGATTTCTTCTAATGGAGGGATGGAATGCCTGGATGTCAGAAGAA
 TATCCTTTCCAAATCGTTGACATCGACGGGATCTGGGAAGGAACCTCGCGACTTTGCTGCCTGTAACCAC
 TTGAGAAGCTACAAATATTACACCGACAGTATCGTCAACCCGACTGGCTTCTCTGGCTTCTCCTGTAGCT
 CTTACAATGTTTTTCTGCAAATAAGTGCTTCCCATGTGGGAGTGAAGGATGCCACAGATGGGTACTA
 TGCTGACAAATACCCTGGGAAGACAAAAGAACTCTACCAGAAATTTACCTGAACACTGGTGACAAGAGC
 AACTTCGCACGTTGGCGGTACCAGGTACTGTCAACCTCTCTGGACAGAAGGTCCTGGGCACATTCTAG
 TTTCTTTGTTGGAAATGGAGGAACTCTAAACAGTATGAAGTTTTCAAGGGCTCTGCATCCAGGTGA
 CACTCATGTCAAGGAATTTGACTCTGATGGATGTTGGAGATTTGCAGAAAGTTAAATTTATTTGGTAC
 AACAAATGTGATCAACCCAACTCTACCCAAAGTGGAGCATCAAGGATTTCAAGTGAACGAAATGACGGCA
 GAGTGTCAACTTCTGTAGTCAAGATACAGTGAAGGAGGATGTCCTGCTTACACTGTCTGCATGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213572 representing NM_013161
 Red=Cloning site Green=Tags(s)

MLMLWTFVLLGAVAGKEVCFDKLGCFSDDAPWSGTIDRPLKALPWSPAQINTRFLLYTNNQDNYQKIT
 SDASSIRNSNFKTRKTRIIHGFIDKGEENWLSMCKNMFKVESVNCICVDWKGGSRAATYQATQNVRV
 VGAEVALLVNVLKSDLGHPPDNVHLIGHSLGSHVAGEAGKRTFGAIGRITGLDAAEPIYFGTPEEVRDP
 TDAQFVDAIHTDAAPIIPNLGFGMSQTVGHLDFFPNGMEMPGCQKNILSQIVDIDGIWEGTRDFAACNH
 LRSYKYYTDSIVNPTGFSGFSCSSYNVFSANKCFPCGSEGPCQMGHYADKYPGKTKELYQKFLNTGGKS
 NFARWRYQVTVTLGQKVTGHILVSLFGNGGNSKQYEVFKGSLHPGDTHVKEFSDMDVGDLDQVKFIWY
 NNVINPTLPKVGASRISVERNDGRVFNFCSDTVREDVLLTTLTAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

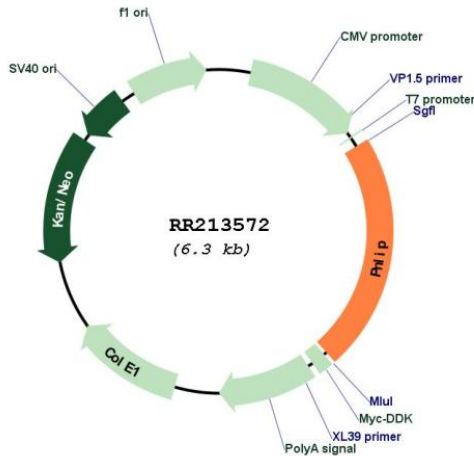
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_013161

ORF Size:

1395 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_013161.2](#), [NP_037293.1](#)

RefSeq Size: 1491 bp

RefSeq ORF: 1398 bp

Locus ID: 25702

UniProt ID: [P27657](#)

Cytogenetics: 1q55

MW: 51.4 kDa

Gene Summary: Plays an important role in fat metabolism. It preferentially splits the esters of long-chain fatty acids at positions 1 and 3, producing mainly 2-monoacylglycerol and free fatty acids, and shows considerably higher activity against insoluble emulsified substrates than against soluble ones.[UniProtKB/Swiss-Prot Function]