

Product datasheet for **RG204735**

Pancreatic Lipase (PNLIP) (NM_000936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pancreatic Lipase (PNLIP) (NM_000936) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pancreatic Lipase
Synonyms:	PL; PNLIPD; PTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204735 representing NM_000936
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCCACTTTGGACTCTTCTACTGCTGCTGGGAGCAGTAGCAGGAAAAGAAGTTTGCTACGAAAGAC
 TCGGCTGCTTCAGTGATGACTCCCCATGGTCAGGAATTACGAAAGACCCCTCCATATATTGCCTTGGTC
 TCCAAAAGATGTCAACACCCGCTTCTCTATATACTAATGAGAACCCTCAACTTTCAAGAAAGTTGCC
 GCAGATTCATCAAGCATCAGTGGCTCCAATTTCAAACAATAGAAAACTCGCTTTATTATTCATGGAT
 TCATAGACAAGGGAGAAGAAAAGTGGCTGGCCAATGTGTGCAAGAATCTGTTCAAGGTGAAAGTGTGAA
 CTGTATCTGTGTGGACTGAAAGGTGGCTCCCGAACTGGATACACACAAGCCTCGCAGAACATCAGGATC
 GTGGGAGCAGAAGTGGCATATTTTGTGAATTTCTTCAGTCGGCGTTTCGGTTACTCACCTCCAACGTGC
 ATGTCATTGGCCACAGCCTGGTGCCACGCTGCTGGGGAGGCTGGAAGGAGAACCAATGGGACCATTGG
 ACGCATCACAGGTTGGACCCAGCAGAACCTTGTCTTCAGGGCACACCTGAATTAGTCCGATTGGACCCC
 AGCGATGCCAAATTTGTGGATGTAATTCACACGGATGGTGCCCCATAGTCCCAATTTGGGGTTTGAA
 TGAGCCAAGTCGTGGCCACCTAGATTTCTTCCAAATGGAGGAGTGAAATGCCTGGATGTAAAAAGAA
 CATTCTCTCAGATTGTGGACATAGACGGAATCTGGGAAGGGACTCGAGACTTTGCGGCCTGTAATCAC
 TTAAGAAGCTACAAATATTACACTGATAGCATCGTCAACCCTGATGGCTTTGCTGGATCCCCTGTGCC
 CTTACAACGTCTTCACTGCAACAAGTGTTCCTTGTCCAAGTGGAGGCTGCCACAGATGGGTCACTA
 TGCTGATAGATACCTGGGAAAACAATGATGTGGCCAGAAATTTATCTAGACTGGTATGCCAGT
 AATTTTGCACGTTGGAGGTATAAGGTATCTGTCACTGTCTGAAAAAAGGTTACAGGCACATACTAG
 TACTATTCCAATGAATTTGACTCAGATGTGGATGTTGGGGACTTGCAGATGGTTAAATTTATTTGGTAT
 AACAAATGTGATCAACCAACTTTACCTAGAGTGGAGCATCCAAGATTATAGTGGAGACAAATGTTGAA
 AACAGTCAACTTCTGTAGTCCAGAAACCGTCAGGGAGGAAGTTCTGCTCACCTCACACCGTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204735 representing NM_000936
 Red=Cloning site Green=Tags(s)

MLPLWTL SLLLGAVAGKEVCYERLGCFSDDSPWSGITERPLHILPWSPKDVNTRFLLYTNNPNNFQEVA
 ADSSSISGSNFKTRKTRFIIHGFIIDKGEENWLANVCKNLFKVESVNCICVDWKGGSRTGYTQASQNI
 VGAEVAYFVEFLQSAFGYSPSNVHVIGHSLGAHAAGEAGRRTNGTIGRITGLDPAEPCFQGTPELVRLDP
 SDAKFVDVIHTDGAPIV PNLGFGMSQVVGHLDFFPNGGVEMP GCKKNILSQIVDIDGIWEGTRDFAACNH
 LRSYKYTTDSIVNPDGFAGFPCASYNVFTANKCFPCPSGGCPQMGHYADRYPGKTNDVVGQKFYLDTG
 DAS N FARWRYKVS VTL SGKKVTGHILVSLFGNKGNSKQYEIFKGTLPDSTHSNEFSDVDVGD LQMVKFIWY
 NNVINPTLPRVGASKIIVETNVGKQFNFCSPETVREEVLLLTPC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000936

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_000936.3](#), [NP_000927.1](#)

RefSeq Size: 1502 bp

RefSeq ORF: 1398 bp

Locus ID: 5406

UniProt ID: [P16233](#)

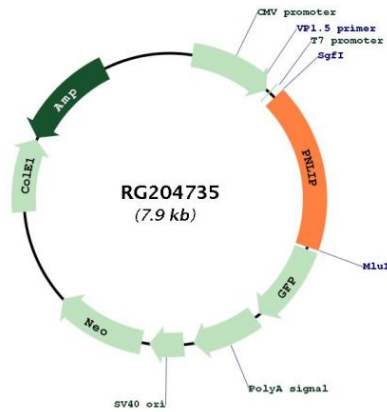
Cytogenetics: 10q25.3

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Glycerolipid metabolism, Metabolic pathways

Gene Summary: This gene encodes a member of the lipase family of proteins. The encoded enzyme is secreted by the pancreas and hydrolyzes triglycerides in the small intestine, and is essential for the efficient digestion of dietary fats. Inhibition of the encoded enzyme may prevent high-fat diet-induced obesity in mice and result in weight loss in human patients with obesity. Mutations in this gene cause congenital pancreatic lipase deficiency, a rare disorder characterized by steatorrhea. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG204735