

Product datasheet for **RG201677**

LANPL (ANP32E) (NM_030920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LANPL (ANP32E) (NM_030920) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LANPL
Synonyms:	LANP-L; LANPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201677 representing NM_030920 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGATGAAGAAGAAGATTAACCTGGAGTTAAGGAACAGATCCCCGGAGGAGGTGACAGAGTTAGTCC
TTGATAATTGCCTGTGTGCAATGGGAAATTGAAGGCCGAATGATACTTTCAAAGAACTAGAATTTCT
GAGTATGGCTAATGTGGAATAAGTTCGCTGGCCCGCTTCCAGCTTAAATAAACTTCGAAAATTGGAG
CTTAGTGATAATAATTTCTGGAGCTTGAAGTCTGGCAGAGAAATGTCAAATCTTACCTACCTCA
ATCTGAGTGAAACAAAATAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTTAAAAATTTGAAAAG
TCTTGACCTGTTAACTGTGAGATCACAAACCTGGAGATTATAGAGAAAAGTATTTTGAAGTACTGCAG
CAAATCACATACTTAGATGGATTTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGATGATG
AGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGA
GGAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTCCAGAGTTGGGA
GAGGGAGAAGAGGAAGTGGCCCTCATACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATG
ACTATGTTGAAGAAGGGGAAGAAGAGGAAGAAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAAACG
AGATGCTGAAGACGATGGAGAGGAAGAAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201677 representing NM_030920
Red=Cloning site Green=Tags(s)

MEMKKKINLELRNRSPEEVTTELVDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLPSLNKLRKLE
 LSDNIIISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKSLDLFNCEITNLEDYRESIFELLQ
 QITYLDGFDQEDNEAPDSEEEDEDDGDEDEDEEEENEAGPPEGYEEEEEEEEDEDEDEDEAGSELG
 EGEEEVGLSYLMKEEIQDEEDDDDYVEEGEEEEEEEEEGGLRGEKRKRDAEDDGEEEDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030920

ORF Size: 804 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_030920.1](#)

RefSeq Size: 3273 bp

RefSeq ORF: 807 bp

Locus ID: 81611

UniProt ID: [Q9BTT0](#)

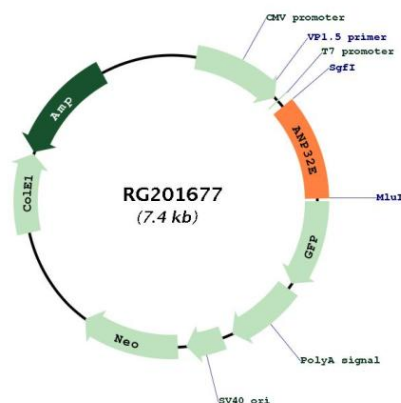
Cytogenetics: 1q21.2

Domains: LRR

Protein Families: Druggable Genome

Gene Summary: Histone chaperone that specifically mediates the genome-wide removal of histone H2A.Z/H2AFZ from the nucleosome: removes H2A.Z/H2AFZ from its normal sites of deposition, especially from enhancer and insulator regions. Not involved in deposition of H2A.Z/H2AFZ in the nucleosome. May stabilize the evicted H2A.Z/H2AFZ-H2B dimer, thus shifting the equilibrium towards dissociation and the off-chromatin state (PubMed:24463511). Inhibits activity of protein phosphatase 2A (PP2A). Does not inhibit protein phosphatase 1. May play a role in cerebellar development and synaptogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201677