

Product datasheet for **RG226727**

LANPL (ANP32E) (NM_001136479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LANPL (ANP32E) (NM_001136479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANP32E
Synonyms:	LANP-L; LANPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226727 representing NM_001136479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGATGAAGAAGAAGATTAACCTGGAGTTAAGGAACAGATCCCCGGAGGAGGTGACAGAGTTAGTCC
TTGATAATTGCCTGTGTGCAATGGGAAATTGAAGGCCGAATGATACTTTCAAAGAACTAGAATTTCT
GAGTATGGCTAATGTGGAAGTTCGCTGGCCCGCTTCCAGCTAAATAAACTTCGAAAATTGGAG
CTTAGTGATAATAATTTCTGGAGGCTTGAAGTCTGGCAGAGAAATGTCAAATCTTACCTACCTCA
ATCTGAGTGAAACAAAATAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTTAAAAATTTGAAAAG
TCTTGACCTGTTAACTGTGAGATCACAAACCTGGAAGATTATAGAGAAAAGTATTTTGAAGTACTGCAG
CAAATCACATACTTAGATGGATTTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGATGATG
AGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGA
GGAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTCCAGAGTTGGGA
GAGGGAGAAGAGGAAGTGGCCCTCTACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATG
ACTATGTTGAAGAAGGGGAAGAAGAGGAAGAAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAAACG
AGATGCTGAAGACGATGGAGAGGAAGAAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226727 representing NM_001136479
 Red=Cloning site Green=Tags(s)

MEMKKKINLELRNRSPEEVTTELVDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLPSLNKLRKLE
 LSDNIIISGGLEVLAEKCPNLTLYNLSGNKIKDLSTVEALQNLKNLKSDDLNFCEITNLEDYRESIFELLQ
 QITYLDGFDQEDNEAPDSEEEDEDDGDEDEDEEEENEAGPPEGYEEEEEEEEDEDEDEDEAGSELG
 EGEEEVGLSYLMKEEIQDEEDDDDYVEEGEEEEEEEGGLRGEKRRDAEDDGEEEDD

TRTRPLE - GFP Tag - V

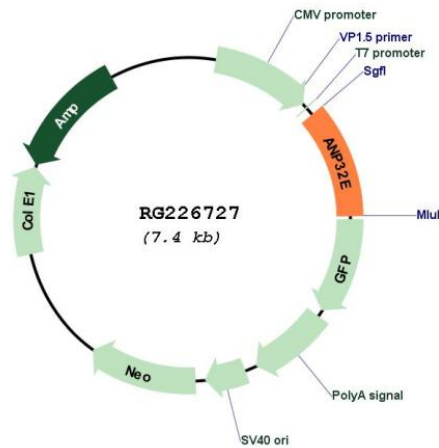
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001136479

ORF Size: 660 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:	<ol style="list-style-type: none">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_001136479.1 , NP_001129951.1
RefSeq Size:	3146 bp
RefSeq ORF:	663 bp
Locus ID:	81611
UniProt ID:	Q9BTT0
Cytogenetics:	1q21.2
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]