

Product datasheet for MR214067

Aunip (NM_001081099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aunip (NM_001081099) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aunip
Synonyms:	2610002D18Rik; Clhc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214067 representing NM_001081099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGCATAGAGGGCCCGAGGAGGAGCGTGTGGTGTGTGGTTGGACGCGGCGGCTGAAGAGGCGGA
AGATGCAGACACATTTAATCAAACCTAGGCACCAAAATGCTGCCATTGCTTCTGGAGAGAGGAAACCTAA
TGATCCTTTTACCCAAAGAAGAGGCACTAGACAGACCAGCATTGCATCTTTTGTACAGCTACAATCAGGA
ATGGCAAGTGGTGGTAACCAGAAGAACATTTTCTCTCAAAGAAAATCAGACCAACAAAGAATGAAGA
GAACCCAGCTAGACTGTTTGGATGATGGCTTGCTATCACCTTTGGTCACTTCAGCTCCTGCAGACATCCA
GGAAGCTGGGCATCCTCGGTCTCCCAGATTTCCAGGCTGCCAGGGTTTGGAAATGCATCTTTGACTATG
ATGCTTTTGACCCAGCCTGATGTCTGATGGGCACTGGAGAGAGTAAAGGCCCCCTGGATTCTTCTTTT
CCCAATACTTGGAACTTCTTGTGGTGGACCAAGAGAGGCAAGAGGAAAGGGGAAGGGCTTCGTGA
ATCTAAGACAGACTGTCCAGGGATGGGAAGCCACATCAGACCACCGGGGAGTAAATGCCATCAGCCCTTG
GACAAAGCTGAAATGGCAAGAGGGGCCACCAAGGAAAACAGGCAGGCCCTGTGCATCTTCCAGCCT
ATAGATCTGGATCCTGCAGTAGGAAAAAACACTATTGGTGACAGAAAGCCCTTGTCTCTTCTTATT
TCCCTGGGACAGTGAAAGGAGTGACAGGGACTCCTGGAGTCAGCTTTTCACTGAGGATTCACAAGGCCAG
CAAGTCATTGCCACAACACTAAAATGCCTTTCCGAGATGTGACCAATGCTAGGAATCAAGGCTCAGGGC
AGTTTCCCTGACAGCCCACAGGCTCAGGGCCAAGACCGGGCCTGCTCAGTTACATCTGCAGTCATACCTGCT
CTTTACCCAGGACTCTGAGGGTAATCGGGTTATCAGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR214067 representing NM_001081099
Red=Cloning site Green=Tags(s)

MRHRGPEEEACGVWLDAAALKRRKMQTHLIKLGTKMLPLLPGERKPNPFTQRRGTRQTSIASFVTLQSG
 MASGGNQKNIFSLKENQTNKECKRTQLDCLDDGLL SPL VTSAPADIQEAGHPRSPQISGCQGLEMSSLTM
 MSLTQPVDVLMGTGESKGPLDSSFSQYLERSCLLDQREAKRKGEGLRESKTDPCGMGSHIRPPGSKCHQPL
 DKAEMGKRGPPTKENRQAPVHLQTYRSGSCSRKKTLLVTESPCPLSLFPWDSERSDRDSWSQLFTEDSQGQ
 QVIAHNKMPFRDVTNARNQGGSGQFPDSPAQQGDGPAQLHLQSYLLFTQDSEGNRVIRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9060_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081099

ORF Size: 1020 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_001081099.1](#), [NP_001074568.1](#)

RefSeq Size: 1270 bp

RefSeq ORF: 1023 bp

Locus ID: 69885

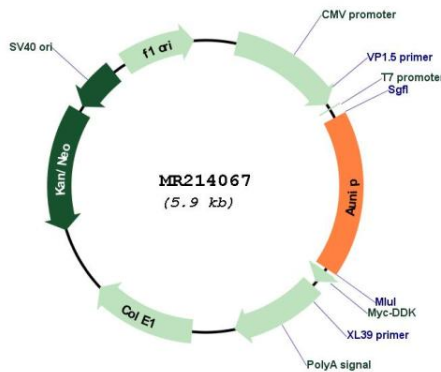
UniProt ID: [E9Q6Z5](#)

Cytogenetics: 4 D3

MW: 37.7 kDa

Gene Summary: DNA-binding protein that accumulates at DNA double-strand breaks (DSBs) following DNA damage and promotes DNA resection and homologous recombination. Serves as a sensor of DNA damage: binds DNA with a strong preference for DNA substrates that mimic structures generated at stalled replication forks, and anchors RBBP8/CtIP to DSB sites to promote DNA end resection and ensuing homologous recombination repair. Inhibits non-homologous end joining (NHEJ). Required for the dynamic movement of AURKA at the centrosomes and spindle apparatus during the cell cycle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214067