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Product datasheet for MC211019

Aunip (NM_001081099) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aunip (NM_001081099) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aunip
Synonyms:	2610002D18Rik; Clhc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC211019 representing NM_001081099 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGGCATAGAGGGCCCGAGGAGGAGGCGTGTGGTGTGTGGTTGGACGCGGCGGCGCTGAAGAGGCGGA AGATGCAGACACATTTAATCAAACTAGGCACCAAAATGCTGCCATTGCTTCCTGGAGAGAGGAAACCTAA TGATCCTTTTACCCAAAGAAGAGGCACTAGACAGACCAGCATTGCATCTTTTGTCACGCTACAATCAGGA ATGGCAAGTGGTGGTAACCAGAAGAACATTTTCTCTCTCAAAGAAAATCAGACCAACAAAGAATGCAAGA GAACCCAGCTAGACTGTTTGGATGATGGCTTGCTATCACCTTTGGTCACTTCAGCTCCTGCAGACATCCA GGAAGCTGGGCATCCTCGGTCTCCCCAGATTTCAGGCTGCCAGGGTTTGGAAATGTCATCTTTGACTATG ATGTCTTTGACCCAGCCTGATGTCCTGATGGGCACTGGAGAGAGTAAAGGCCCCCTGGATTCTTCCTTTT CCCAATACTTGGAACGTTCTTGTTTGCTGGACCAAAGAGAGGCCAAGAGGAAAGGGGAAGGGCTTCGTGA ATCTAAGACAGACTGTCCAGGGATGGGAAGCCACATCAGACCACCGGGGAGTAAATGCCATCAGCCCTTG GACAAAGCTGAAATGGGCAAGAGGGGGCCTACCAAGGAAAACAGGCAGGCCCCTGTGCATCTTCAGACCT ATAGATCTGGATCCTGCAGTAGGAAAAAAACACTATTGGTGACAGAAAGCCCTTGTCCTCTTTCCTTATT TCCCTGGGACAGTGAAAGGAGTGACAGGGACTCCTGGAGTCAGCTTTTCACTGAGGATTCACAAGGCCAG CAAGTCATTGCCCACAACACTAAAATGCCTTTCCGAGATGTGACCAATGCTAGGAATCAAGGCTCAGGGC AGTTTCCTGACAGCCCACAGGCTCAGGGCCAAGACGGGCCTGCTCAGTTACATCTGCAGTCATACCTGCT CTTTACCCAGGACTCTGAGGGTAATCGGGTTATCAGGCACTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001081099

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Insert Size:	1023 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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
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]