

Product datasheet for RN212697

Arpp19 (NM_031660) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpp19 (NM_031660) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arpp19
Synonyms:	Arpp-19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN212697 representing NM_031660 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCGGGAAGTCCCCGAGGCAGCGTCGGCGGAGGAGCAAAAAGAAATGGAAGATAAAGTAACTAGTC
CAGAGAAAGCTGAAGAAGCAAAGTTAAAAGCAAGGTATCCTCATTTGGGACAAAAGCCTGGTGGTTCTGA
CTTTTTAAGGAAAAGATTGCAGAAAGGGCAAAAGTATTTTGATTCTGGGGATTACAACATGGCAAAAGCA
AAGATGAAGAACAAGCAGCTTCTGCTGCAGCCCCGGATAAGACAGAGGTCACTGGTGACCACATCCCA
CTCCACAGGACCTTCTCAGCGAAACCATCCCTTGTGCTAGCAAACCTGGCTGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_031660
Insert Size:	339 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).



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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_031660.1](#), [NP_113848.1](#)

RefSeq Size: 339 bp

RefSeq ORF: 339 bp

Locus ID: 60336

UniProt ID: [Q712U5](#)

Cytogenetics: 8q24

Gene Summary: Protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-62 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase (By similarity). May indirectly enhance GAP-43 expression by binding to the NGF-regulatory region of its mRNA.[UniProtKB/Swiss-Prot Function]