

Product datasheet for **MC219543**

Arpp21 (NM_001177617) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpp21 (NM_001177617) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arpp21
Synonyms:	0710001E13Rik; AI853636; ARPP-21; D9Bwg1012e; R3hdm3; Tarpp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219543 representing NM_001177617
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTGAGCAAGGAGGACTGACTCCGACCATACTGGAAGAAGGGCAGACGGAGCCAGAGTCTGCCCCAG
 AAAATGGCATCCTCAAGTCAGAAAGTCTGGATGAGGAGGAGAAGCTGGAAGTGCAGCGGCCGACTGGCGGC
 TCAGAACCAAGAGAGGAGAAAATCCAAGTCAGGAGCAGGCAAAGGGAAGCTGACCAGAAGTCTTGCTGTC
 TGTGAAGAGTCTTCAGCTAGATCTGGAGGGGAAAGTACCAGGATCAGGAATCAATTCACCTACAGCTTT
 CCAGTTTTCCCAGCCTGCAAGAGGAGGATAAATCTAGGAAGGATGATTCTGAGAGAGAAAAGAAAAGGA
 TAAGAACAGAGAGAACTCTCTGAGAGACCAAGATCAGAATGTTATCAAAGATTGCAGCCAAGAATAC
 ACAGATTCTACAGGCATAGACTTACATGGGTTTCTAATTAACACGCTGAAGAACAATTCAGGGACAGGA
 TGATACTCTTGAAAATGGAGCAGGAAATGATTGATTTTCATTGCTGACAGCAATAACCACTATAAAAAGTT
 CCCCAGATGTATCCTATCAAAGGATGCTGGTCCATCGGGTGGCAGCGTACTTTGGATTGGACCACAAC
 GTGGATCAAAGTGGAAAATCTGTATCATCAACAAGACCAGCAGCACCAGGATGGCTCACCGAGACAGCT
 CAGGAAGAATTCCGGGAGCCGGCAGAGCAGCTCAGAGACTGAGCTCAGGTGGCCAGACCACCAGCGGGC
 TTGGAGCAGCACAGATTCGGACAGTTCCAACCGCAATCTGAAGCCACCATGACCAAGACGGCAAGTTTT
 GGGGGCATCACGGTGTGACCAGGGGCGACAGCAGTCCAGTACCAGGAGTGTGGGAAACTGTCCAAAA
 CAGGTTCTGAGTCTTCCAGCAGTGGGGCTCCTCAGGATCACTGTCCCGCACCCACCCACAGAGCACGGC
 CCTGACCTTAGCGTGGCAGCTGGTTCCTGGCTGTATGGCCTATTCAGAGAATGGAATGGGAGGCCAG
 GTTCTCCAGCAGCACCAGCTACATCCTCCTCCACTGAAAGTGGCAGTGGCATCCCACCCGGAAGCA
 TCCTTCTTAATCCACACACAGGTCAGCCCTTTGTGAACCCGGATGGAACGCCTGCGATATACAACCTCC
 CGGAAGTCAGCAGACACTGCGTGGCACTGTTGGTGGGCAGCCCCAGCAACCTCCACAGCAGCAACCTTCG
 CCTCAGCCTCAGCAGCAGGTCCAGGCATCACAGCCCCAGATGGCAGGGCCACTGGTCACTCAGAGAGAAG
 AACTGGCTGCCAGTTCAGCCAGCTGAGCATGAGCCGGCAGTCCCTCGGGAGACACTCCTGAACCTCCCTC
 TGGTACAGTCTACCCAGCCTCTCTCCTGCCACAAACGGCTCAGCCACAGAGTTATGTCATCACTTCTGCA
 GGCCAGCAGCTCTACAGGGGGCTTCTCGACTCTGGCCCGCCATCTCCAGCAGGTCTGCAGGCC
 CGCCCTCTCCCAGGGATTTGTACAGCAGCCTCCACCTGCACAGATGTCCTGCTATTACTACCCATCTGG
 TCAGTACCCTACCTCAACCTCACAGCAGTACCACCCCTCGCTCAGTCCAGTACAGTGTCTCAGCGGAGT
 CAGCAAATACCACAGACCACACAGCAAGCAGTTTGTATGATTGCACCTGACACCTGGCCGACAGTCCCAG
 CAGAGCTTGCCCTACAGAAAGTGAGTTTACTGTGGATTAGTGAAGGCAGATGG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001177617

Insert Size: 1806 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_001177617.1](#), [NP_001171088.1](#)

RefSeq Size: 2805 bp

RefSeq ORF: 1806 bp

Locus ID: 74100

UniProt ID: [Q9DCB4](#)

Cytogenetics: 9 62.46 cM

Gene Summary: Isoform 2 may act as a competitive inhibitor of calmodulin-dependent enzymes such as calcineurin in neurons.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (5) differs in the 5' and 3' ends and internal coding regions, as compared to variant 3. The resulting isoform (5) is shorter; it lacks two internal segments and has a shorter and different C-terminus, as compared to isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.