

## Product datasheet for **MC221643**

### Arpp21 (NM\_001177616) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arpp21 (NM_001177616) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arpp21
Synonyms:	0710001E13Rik; AI853636; ARPP-21; D9Bwg1012e; R3hdm3; Tarpp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221643 representing NM\_001177616  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGAGCAAGGAGGACTGACTCCGACCATACTGGAAGAAGGGCAGACGGAGCCAGAGTCTGCCCCAG  
 AAAATGGCATCCTCAAGTCAGAAAGTCTGGATGAGGAGGAGAAGCTGGAAGTGCAGCGGCCGACTGGCGGC  
 TCAGAACCAAGAGAGGAGAAAATCCAAGTCAGGAGCAGGCAAAGGGAAGCTGACCAGAAGTCTTGCTGTC  
 TGTGAAGAGTCTTCAGCTAGATCTGGAGGGGAAAGTACCAGGATCAGGAATCAATTCACCTACAGCTTT  
 CCAGTTTCCCCAGCCTGCAAGAGGAGGATAAATCTAGGAAGGATGATTCTGAGAGAGAAAAAGAAAAGGA  
 TAAGAACAGAGAGAACTCTCTGAGAGACCAAGATCAGAATGTTATCAAAAGATTGCAGCCAAGAATAC  
 ACAGATTCTACAGGCATAGACTTACATGGGTTTCTAATTAACACGCTGAAGAACAATTCAGGGACAGGA  
 TGATACTCTTGAAAATGGAGCAGGAAATGATTGATTTTCATTGCTGACAGCAATAACCACTATAAAAAAGTT  
 CCCCCAGATGTATCCTATCAAAGGATGCTGGTCCATCGGGTGGCAGCGTACTTTGGATTGGACCACAAC  
 GTGGATCAAAGTGGAAAATCTGTATCATCAAAGACCAGCAGCACCAGGATACCAGAGCAAAGGTTTT  
 GTGAACATTTAAAAGATGAAAAAGTGAAGAATCCCAGAAGCGGTTTATCTTGAAGCGAGATAACTCTAG  
 TATTGATAAAGAAGACAATCAGTCAGTTTGTCTACAGGAAAGCCTATTTTTGGACAACAGGGCTCACCGA  
 GACAGCTCAGGAAGAAGTCCGGGAGCCGGCAGAGCAGCTCAGAGACTGAGCTCAGTGGCCAGACCACC  
 AGCGGGCTTGGAGCAGCAGATTCGGACAGTTCCAACCGCAATCTGAAGCCCACCATGACCAAGACGGC  
 AAGTTTTGGGGGCATCACGGTGTGACCAGGGGCGACAGCAGTCCAGTACCAGGAGTGTGGGAAACTG  
 TCCAAAACAGGTTCTGAGTCTTCCAGCAGTGGGGCTCCTCAGGATCACTGTCCCGCACCCACCCACAGA  
 GCACGGCCCTGACCTCTAGCGTGGCAGCTGGTTCTCCTGGCTGTATGGCCTATTCAGAAATGGAATGGG  
 AGGCCAGGTTCCCTCCAGCAGCACCAGCTACATCCTCCTCCACTTGAAAGTGCGACTGGCATCCCACCC  
 GGAAGCATCCTTCTTAATCCACACACAGGTGAGCCCTTTGTGAACCCGGATGGAACGCTGCGATATACA  
 ACCCTCCCGAAGTCAGCAGACTGCGTGGCACTGTTGGTGGCAGCCCGCAACCTCCACAGCAGCA  
 ACCTTCGCCTCAGCCTCAGCAGCAGTCCAGGCATCACAGCCCCAGATGGCAGGGCCACTGGTCACTCAG  
 TCTGTCCAGAGCCTGCAGCCATCTTCCAGTCTGTGCAATATCCAGCGGTCTCTTTTCTCCCGCAGCATC  
 TCCTGCCTATGTCGCCAACGCAGCACTTCCCTTGAGAGAAGAACTGGCTGCCAGTTACGCCAGCTGAG  
 CATGAGCCGGCAGTCTCGGGAGACTCCTGAACCTCCCTCTGGTACAGTCTACCCAGCCTCTCTCCTG  
 CCACAAACGGCTCAGCCACAGAGTTATGTCATCACTTCTGCAGGCCAGCAGCTCTCTACAGGGGCTTCT  
 CGGACTCTGGCCCGCCATCTCCAGCAGTCTCGAGGCCCGCCCTCTCCCGAGGATTGTACAGCA  
 GCCTCCACCTGCACAGATGTCCGTCTATTACTACCCATCTGGTCACTACCTACCTCAACCTCACAGCAG  
 TACCGACCCCTCGCCTCAGTCCAGTACAGTGTCTCAGCGGAGTCAAGCAATACCACAGACCACACAGCAAG  
 CAGGTTACCAGCCAGTCTTGTCTGGTCAAGGAGTCCAAAGGCATGATGGGAGTACAGCAGTCAAGCGCA  
 CAGCCAGGGTGTGATGAGCAGTCAAGGAGCCCGGTGATGGTGTGATGGTCTCTACCCAACCATG  
 TCTTCTTATCAGGTGCCAATGACCCAAGGCTCTCAAGCAGTGGCCAGCAGACATACCAACCACCAATCA  
 TGCTGCCAGTCAAGCAGGCCAAGGTCCTCCAGCCACCGGAATGCCTGTGTACTGTAACTGACACACC  
 GCCAAACCCTCAGAACAACCTAAGGTTGATGGGTCCACACTGCCCTCCAGCAGGTTCTGTCTATGTCC  
 GCTAGTTGCAGAACAACTGTGGGAACGTGAGCAACGCAGGCTGGCAGGTCAAGTT**CGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001177616  
**Insert Size:** 2370 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001177616.1</a></u> , <u><a href="#">NP_001171087.1</a></u>
<b>RefSeq Size:</b>	3423 bp
<b>RefSeq ORF:</b>	2370 bp
<b>Locus ID:</b>	74100
<b>UniProt ID:</b>	<u><a href="#">Q9DCB4</a></u>
<b>Cytogenetics:</b>	9 62.46 cM
<b>Gene Summary:</b>	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 (4), as well as variants 26-28, encodes isoform 4.