

Product datasheet for **MR222991**

Arpp21 (NM_001177617) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpp21 (NM_001177617) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR222991 representing NM_001177617
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTAGCAAGGAGGACTGACTCCGACCATACTGGAAGAAGGGCAGACGGAGCCAGAGTCTGCCCCAG
 AAAATGGCATCCTCAAGTCAGAAAGTCTGGATGAGGAGGAGAAGCTGGAAGTGCAGCGGCGACTGGCGGC
 TCAGAACCAAGAGAGGAGAAAATCCAAGTCAGGAGCAGGCAAAGGGAAGCTGACCAGAAGTCTTGCTGTC
 TGTGAAGAGTCTTCAGCTAGATCTGGAGGGGAAAGTACCAGGATCAGGAATCAATTCACCTACAGCTTT
 CCAGTTTCCCCAGCCTGCAAGAGGAGGATAAATCTAGGAAGGATGATTCTGAGAGAGAAAAAGAAAAGGA
 TAAGAACAGAGAGAACTCTCTGAGAGACCAAGATCAGAATGTTATCAAAGATTGCAGCCAAGAATAC
 ACAGATTCTACAGGCATAGACTTACATGGGTTTCTAATTAACACGCTGAAGAACAATTCCAGGGACAGGA
 TGATACTTTGAAAATGGAGCAGGAAATGATTGATTTTCATTGCTGACAGCAATAACCACTATAAAAAAGTT
 CCCCCAGATGTACCTATCAAAGGATGCTGGTCCATCGGGTGGCAGCGTACTTTGGATTGGACCACAAC
 GTGGATCAAAGTGGAAAATCTGTATCATCAACAAGACCAGCAGCACCAGGATGGCTCACCGAGACAGCT
 CAGGAAGAAGTCCGGGAGCCGGCAGAGCAGCTCAGAGACTGAGCTCAGGTGGCCAGACCACCAGCGGGC
 TTGGAGCAGCACAGATTCGGACAGTTCCAACCGCAATCTGAAGCCACCATGACCAAGACGGCAAGTTTT
 GGGGGCATCACGGTGTGACAGGGGGCAGCAGCAGTCCAGTACCAGGAGTGTGGGAAACTGTCCAAAA
 CAGGTTCTGAGTCTTCCAGCAGTGGGGCTCCTCAGGATCACTGTCCCGCACCCACCCACAGAGCACGGC
 CCTGACCTCTAGCGTGGCAGCTGGTTCTCCTGGCTGTATGGCCTATTAGAGAATGGAATGGGAGGCCAG
 GTTCTCTCCAGCAGCACCAGCTACATCCTCCTCCACTGAAAGTGGCAGTGGCATCCCACCCGGAAGCA
 TCCTTCTTAATCCACACACAGGTCAGCCCTTTGTGAACCCGGATGGAACGCTCGCATATAACAACCTCC
 CGGAAGTCAGCAGACACTGCGTGGCACTGTTGGTGGGCAGCCCCAGCAACCTCCACAGCAGCAACCTTCG
 CCTCAGCCTCAGCAGCAGGTCCAGGCATCACAGCCCCAGATGGCAGGGCCACTGGTCACTCAGAGAGAAG
 AACTGGCTGCCAGTTCAGCCAGCTGAGCATGAGCCGGCAGTCCCTCGGGAGACACTCCTGAACCTCCCTC
 TGGTACAGTCTACCCAGCCTCTCTCCTGCCACAACCGGCTCAGCCACAGAGTTATGTCATCACTTCTGCA
 GGCCAGCAGCTCTACAGGGGGCTTCTCGACTCTGGCCCGCCATCTCCAGCAGGTCTGCAGGGCC
 CGCCCTCTCCCCAGGGATTTGTACAGCAGCCTCCACCTGCACAGATGTCCTGCTATTACTACCCATCTGG
 TCAGTACCCTACCTCAACCTCACAGCAGTACCAGCCCTCGCCTCAGTCCAGTACAGTGTCTCAGCGGAGT
 CAGCAAATACCACAGACCACACAGCAAGCAGGTTTGTGATTGCACCTGACACCTGGCCGACAGTCCCAG
 CAGAGCTTGCCCTACAGAAAGTGAAGTACTGTGGATTAGTGAAGGCAGATGG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222991 representing NM_001177617
 Red=Cloning site Green=Tags(s)

MSEQGGLTPTILEEQTEPEPESAPENGILKSESLDEEEKLELQRRLLAAQNQERRKSKSGAGKGLTRSLAV
 CEESSARSGGESHQDQESIHLQLSSFPSLQEEDKSRKDDSEREKEKDKNREKLSERPPIRMLSKDCSQEY
 TDSTGIDLHGFLINTLKNNSRDRMILLKMEQEMIDFIADSNHYKFPQMSSYQRMVHRVAAYFGLDHN
 VDQTGKSVIINKTSSTRMAHRDSSGRTSGSRQSSSETELRWPDPHQRAWSSDSDSSNRNLKPTMTKTASF
 GGITVLTRGDSTSSTRSAGKLSKTGSESSSSAGSSGSLSRTHPQSTALSSVAAGSPGCMAYSENGMGGQ
 VPPSSTSYILLPLESATGIPPGSILLNPHTGQPFVNPDPGTPAIYNPPGSQQTLRGTVGGQPQQPPQQPS
 PQPQQVQASQPQ MAGPLVTQREELAAQFSQLSMSRQSSGDTPEPPSGTVYPASLLPQTAQPQSYVITSA
 GQQLSTGGFSDSGPPI SQVQLQAPPSPQGFVQPPPAQMSVYYPVSGQYPTSTSQQYRPLASVQYSAQRS
 QQIPQTTQAGLMIAPDTPVPAELALQKVSLLWISEGRW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
MW:	65.7 kDa
Gene Summary:	Isoform 2 may act as a competitive inhibitor of calmodulin-dependent enzymes such as calcineurin in neurons.[UniProtKB/Swiss-Prot Function]