

Product datasheet for **MR222990**

Arpp21 (NM_033264) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpp21 (NM_033264) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

ORF Nucleotide Sequence:

>MR222990 representing NM_033264
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGAGCAAGGAGGACTGACTCCGACCATACTGGAAGAAGGGCAGACGGAGCCAGAGTCTGCCCCAG
 AAAATGGCATCCTCAAGTCAGAAAGTCTGGATGAGGAGGAGAAGCTGGAAGTGCAGCGGGCGACTGGCGGC
 TCAGAACCAAGAGAGGAGAAAAATCCAAGTCAGGAGCAGGCAAAGGGAAGCTGACCAGAAGTCTTGCTGTC
 TGTGAAGAGTCTTCAGCTAGATCTGGAGGGGAAAGTCAACCAGGATCAGGAATCAATTCACCTACAGCTTT
 CCAGTTTCCCCAGCCTGCAAGAGGAGGATAAATCTAGGAAGGATGATTCTGAGAGAGAAAAAGAAAAGGA
 TAAGAACAGAGAGAACTCTCTGAGAGACCAAGATCAGAATGTTATCAAAAGATTGCAGCCAAGAATAC
 ACAGATTCTACAGGCATAGACTTACATGGGTTTCTAATTAACACGCTGAAGAACAATTCAGGGACAGGA
 TGATACTCTTGAAAATGGAGCAGGAAATGATTGATTTTCATTGCTGACAGCAATAACCACTATAAAAAAGTT
 CCCCCAGATGTATCCTATCAAAGGATGCTGGTCCATCGGGTGGCAGCGTACTTTGGATTGGACCACAAC
 GTGGATCAAAGTGGAAAATCTGTATCATCAACAAGACCAGCAGCACCAGGATACCAAGAGCAAAGGTTTT
 GTGAACATTTAAAAGATGAAAAAGTGAAGAATCCCAGAAGCGGTTTATCTTGAAGCGAGATAACTCTAG
 TATTGATAAAGAAGACAATCAGAACAGAATGCACCCATTTAGAGATGACAGACGAAGTAAATCAATTGAA
 GAGAGAGAAGAGGAATATCAGAGAGTGGAGGAGAGAATATTTGCACATGATTGAGTTTGGCTCACAGGAAA
 GCCTATTTTTGGACAACAGTAGGCTCCAGGAAGACATGCACATATGCAATGAGACCTATAAGAAAAGACA
 GCTCTTTCCGGCTCACCGAGACAGCTCAGGAAGAACTTCCGGGAGCCGGCAGAGCAGCTCAGAGACTGAG
 CTCAGTGGCCAGACCACAGCGGGCTTGGAGCAGCACAGATTCGGACAGTTCCAACCGCAATCTGAAGC
 CCACCATGACCAAGACGGCAAGTTTTGGGGGCATCACGGTGTGACCAGGGGCGACAGCAGTCCAGTAC
 CAGGAGTGTGGGAAACTGTCCAAAACAGGTTCTGAGTCTTCCAGCAGTGCGGGCTCCTCAGGATCACTG
 TCCCGCACCCACCCACAGAGCACGGCCCTGACCTCTAGCGTGGCAGCTGGTTCTCCTGGCTGTATGGCCT
 ATTCAGAGAATGGAATGGGAGGCCAGGTTCTCCAGCAGCACCAGCTACATCCTCCTCCCACTTAAAAG
 TGCGACTGGCATCCCACCCGGAAGCATCCTTCTTAATCCACACACAGGTCAGCCCTTTGTGAACCCGGAT
 GGAACGCTGCGATATAACAACCTCCCGGAAGTCAGCAGACACTGCGTGGCACTGTTGGTGGCAGCCCC
 AGCAACCTCCACAGCAGCAACCTTCGCCTCAGCCTCAGCAGCAGGTCAGGCATCACAGCCCCAGATGGC
 AGGGCCACTGGTCACTCAGAGAGAAGAACTGGCTGCCAGTTCAGCCAGCTGAGCATGAGCCGGCAGTCC
 TCGGGAGACACTCCTGAACCTCCCTCTGGTACAGTCTACCCAGCCTCTCCTGCCACAAACGGCTCAGC
 CACAGAGTTATGTCATCACTTCTGCAGGCCAGCAGCTCTCTACAGGGGGTCTCGGACTCTGGCCCGCC
 CATCTCCAGCAGGTCCTGCAGGCCCGCCCTCTCCCCAGGGATTTGTACAGCAGCTCCACCTGCACAG
 ATGTCCGCTATTACTACCCATCTGGTCACTACCTACCTCAACCTCACAGCAGTACCGACCCCTCGCCT
 CAGTCCAGTACAGTGTCTCAGCGGAGTCAGCAAATACCACAGACCACAGCAAGCAGGTTACCAGCCAGT
 CTTGTCTGGTCAAGGGCTTCCAAGGCATGATGGGAGTACAGCAGTCAAGCAGCAGCCAGGGTGTGATG
 AGCAGTCAGCAAGGAGCCCCGGTGCATGGTGTGATGGTCTCTACCAACCATGTCTTCTTATCAGGTGC
 CAATGACCAAGGCTCTCAAGCAGTCCCCAGCAGACATACCAACCAACATCATGCTGCCAGTCAGGC
 AGGCCAAGGGTCACTCCCAGCCACCGGAATGCCGTGTACTGTAACGTACACCCGCAAAACCCCTCAGAAC
 AACCTAAGGTTGATGGGTCCACACTGCCCTCCAGCAGGTTCTGTCTGTCCGCTAGTGCAGAACAA
 ACTGTGGGAACGTGAGCAACGCAGGCTGGCAGGTCAGGTTCAAGTTC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222990 representing NM_033264
 Red=Cloning site Green=Tags(s)

MSEQGGLTPTILEEGQTEPESAPENGILKSESLDEEEKLELQRRLLAAQNQERRKSKSGAGKGLTRSLAV
 CEESARSGGESHQDQESIHLQLSSFPSLQEEDKSRKDDSEREKEKDKNREKLSERP KIRMLSKDCSQEY
 TDSTGIDLHGFLINTLKNNRDRMILLKMEQEMIDFIADSNHYKFKFPQMSSYQRM LVHRVAAYFGLDHN
 VDQTGKSVIINKTSSTRIPEQRFCEHLKDEKSEESQKRFILKRDNSSIDKEDNQRMHPFRDDRKSIE
 EREEEYQVRERIFAHDSVCSQESLFLDNSRLQEDMHICNETYKKRQLFRAHRDSSGRTSGSRQSSSETE
 LRWPDHQRAWSSDSDSSNRNLKPTMTKTASF GGITVL TRGDSTSSTRSAGKLSKTGSESSSSAGSSGSL
 SRTHPQSTALTSSVAAGSPGCMAYSENGMGGQVPPSSTSYILLPLESATGIPPGSILLNPHTGQPFVNP
 GTPAIYNPPGSQQLRGT VGGPQQPPQPPSPQPPQQVQASQPQ MAGPLVTQREELAAQFSQLSMSRQS
 SGGTPEPPSGTVYPASLLPQTAQPQSYVITSAGQQLSTGGFSDSGPPI SQQVLQAPPSPQGFVQPPPAQ
 MSVYYYPSGGYPTSTSQQYRPLASVQYSAQRSQQIPQTTQQAGYQPVLSGQQGFQGMGVQQSAHSQGM
 SSQQGAPVHGMVSYPTMSSYQVPMTQGSQAVPQQTYQPPIMLPSQAGQGS L PATGMPVYCNVTPPNPQN
 NLRLMGPHCPSSSTVPVMSASCR TNCGNVSNAGWQVKF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_033264

ORF Size: 2421 bp

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:

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_033264.2](#), [NP_150289.1](#)

RefSeq Size: 3310 bp

RefSeq ORF: 2424 bp

Locus ID: 74100

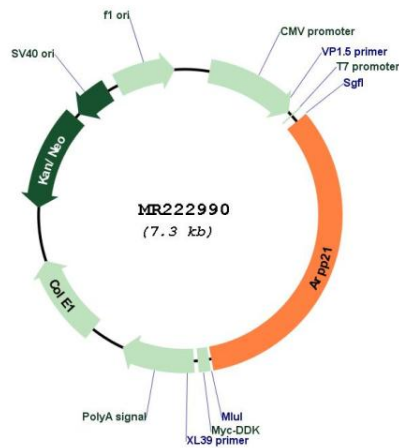
UniProt ID: [Q9DCB4](#)

Cytogenetics: 9 62.46 cM

MW: 89 kDa

Gene Summary: Isoform 2 may act as a competitive inhibitor of calmodulin-dependent enzymes such as calcineurin in neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222990