

Product datasheet for **MG223006**

Arpp21 (NM_001177623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpp21 (NM_001177623) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arpp21
Synonyms:	0710001E13Rik; AI853636; ARPP-21; D9Bwg1012e; R3hdm3; Tarpp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223006 representing NM_001177623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAGCAAGGAGGACTGACTCCGACCATACTGGAAGAAGGGCAGACGGAGCCAGAGTCTGCCCCAG
AAAATGGCATCCTCAAGTCAGAAAGTCTGGATGAGGAGGAGAAGCTGGAAGTGCAGCGGCGACTGGCGGC
TCAGAACCAAGAGAGGAGAAAAATCCAAGTCAGGAGCAGGCAAAGGAAGCTGACCAGAAGTCTTGCTGTC
TGTGAAGAGTCTTCAGCTAGATCTGGAGGGGAAAGTCACCAGGATCAGGAATCAATTCACCTACAGCTTT
CCAGTTTCCCCAGCCTGCAAGAGGAGGATAAATCTAGGAAGGATGATTCTGAGAGAGAAAAAGAAAAGGA
TAAGAACAGAGAGAACTCTCTGAGAGACCCAAGATCAGAATGTTATCAAAGATTGCAGCCAAGAATAC
ACAGATTCTACAGGCATAGACTTACATGGGTTTCTAATTAACACGCTGAAGAACAATCCAGGGACAGGA
TGATACTCTTGAAAAATGGAGCAGGAAATGATTGATTTTCATTGCTGACAGCAATAACCACTATAAAAAAGTT
CCCCCAGATGTCATCCTATCAAAGGATGCTGGTCCATCGGGTGGCAGCGTACTTTGGATTGGACCACAAC
GTGGATCAAACGGAAAAATCTGTCATCATCAACAAGACCAGCAGCACCAGGATAGTCCAAGATACTGGCT
GGAGATGCAAGCATGCTCACCGTACAGGAGCAGTGTGCACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223006 representing NM_001177623
 Red=Cloning site Green=Tags(s)

MSEQGGLTPTILEEGQTEPESAPENGILKSESLDEEEKLELQRRLAAQNQERRKSKSGAGKGLTRSLAV
 CEESSARSGGESHQDQESIHLQLSSFPSLQEEDKSRKDDSEREKEKDKNREKLSERP KIRMLSKDCSQEY
 TDSTGIDLHGFLINTLKNNSRDRMILLKMEQEMIDFIADSNHHYKFPQMSSYQRMLVHRVAAYFGLDHN
 VDQTGKSVIINKTSSTRIVQDTGWRCKHAHRTGAVCTN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177623

ORF Size: 744 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_001177623.1](#), [NP_001171094.1](#)

RefSeq Size: 2642 bp

RefSeq ORF: 747 bp

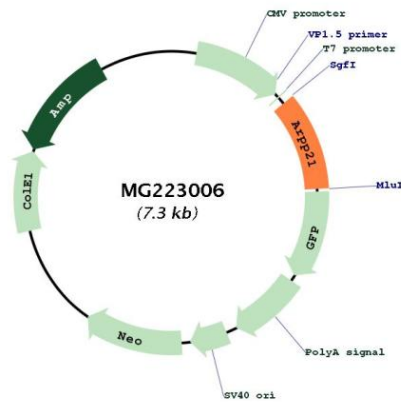
Locus ID: 74100

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]

Product images:



Circular map for MG223006