

## Product datasheet for **MG222998**

### Arpp21 (NM\_001177620) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arpp21 (NM\_001177620) 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:** >MG222998 representing NM\_001177620  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGAGCAAGGAGGACTGACTCCGACCATACTGGAAGAAGGGCAGACGGAGCCAGAGTCTGCCCCAG  
AAAATGGCATCCTCAAGTCAGAAAGTCTGGATGAGGAGGAGAAGCTGGAAGTGCAGCGGCGACTGGCGGC  
TCAGAACCAAGAGAGGAGAAAAATCCAAGTCAGGAGCAGGCAAAGGAAGCTGACCAGAAGTCTTGCTGTC  
TGTGAAGAGTCTCAGCTAGATCTGGAGGGAAAGTCACCAGGATCAGACTCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222998 representing NM\_001177620  
Red=Cloning site Green=Tags(s)  
MSEQGGLTPTILEEGQTEPESAPENGILKSESLDEEEKLELQRRLLAAQNQERRKSKSGAGKGLTRSLAV  
CEESSARSGGESHQDQTL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

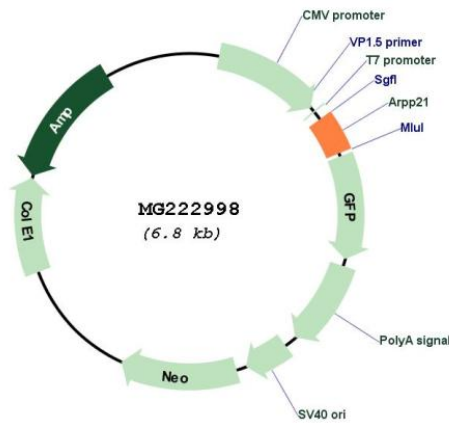


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001177620

ORF Size: 264 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001177620.1</a></u> , <u><a href="#">NP_001171091.1</a></u>
<b>RefSeq Size:</b>	3366 bp
<b>RefSeq ORF:</b>	267 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]