

## Product datasheet for **MG202650**

### Arpin (NM\_027420) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arpin (NM_027420) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arpin
Synonyms:	2610034B18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202650 representing NM_027420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCGCATCTACCAGGATAGCGCCCTCCGCAACAAGGCCGTGCAGAGCGCGCCTGCCGGAACT  
GGGACCTGCCACCCACCAAGGGGAAATGGCATCTTGTGGAGGGGAGCTCGTGGATGTATCTCGGCA  
CAGCATCTGGATGCCCATGGCAGGAAGGAGCGCTACTATGTGCTGTATATCCAGCCAGCTGTATCCAC  
AGGCGTAAGTTTGACCCCAAGGGAAATGAAATTGAGCCCAACTTCAGTCCACCAGGAAGGTGAACACAG  
GCTTCCTCATGTCATCTTACAAGGTGGAGGCCAAGGGCGACACAGACCGGCTCACCTGGAGGCGTGAA  
GAGCCTGGTAAACAAGCCCCAGCTGCTGGAATTGACAGAGAGCCTCACCCAGACCAGGCGGTGGCATT  
TGGATGCCTGAGTCAGAGATGGAGGTCATGGAACCTCGAACTGGGGACTGGAGTGGGATAAAACTCGGG  
GTGATGGTCCCTTCATAGATTCTTAGCCAAACTGGAGCTGGGGACAGTGACCAAGTGTAATTTTGTCTGG  
TGATGGAAAGACGGGAGCTTCTGGACAGACAATATCATGGCCAGAAAGTCTTCAGAGAGGAACACAGCA  
GAGATCCGAGAGCAAGGAGACGGGGCAGAGGACGAGGAATGGGATGAC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202650 representing NM\_027420  
 Red=Cloning site Green=Tags(s)

MSRIYQDSALRNKAVQSARLPGTWDPATHQGGNGILLEGELVDVSRHSILDAHGRKERYVLYIQPSCIH  
 RRFKDPKNEIEPNFSATRKVNTGFLMSSYKVEAKGDTDRLTLEALKSLVKNPQLLEL TESLTPDQAVAF  
 WMPESEMEVELELGTGVRLKTRGDGPFIDSLAKLELGTVTKCNFAGDGKTGASWTDNIMAQKSSERNTA  
 EIREQDGAEDEEWD

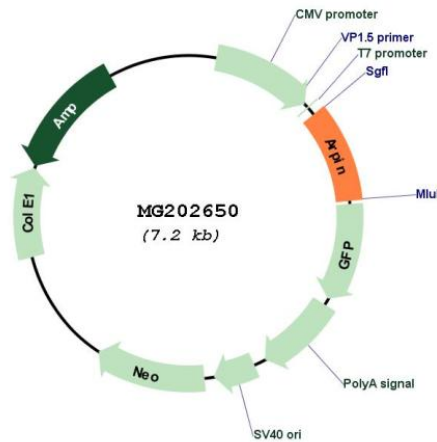
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_027420

**ORF Size:** 678 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_027420.4</a>
<b>RefSeq Size:</b>	2185 bp
<b>RefSeq ORF:</b>	681 bp
<b>Locus ID:</b>	70420
<b>UniProt ID:</b>	<a href="#">Q9D0A3</a>
<b>Cytogenetics:</b>	7 D2
<b>Gene Summary:</b>	Regulates actin polymerization by inhibiting the actin-nucleating activity of the Arp2/3 complex; the function is competitive with nucleation promoting factors. Participates in an incoherent feedforward loop at the lamellipodium tip where it inhibits the ARP2/2 complex in response to Rac signaling and where Rac also stimulates actin polymerization through the WAVE complex. Involved in steering cell migration by controlling its directional persistence (By similarity).[UniProtKB/Swiss-Prot Function]