

## Product datasheet for **MG214003**

### Actrt1 (NM\_028514) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actrt1 (NM_028514) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actrt1
Synonyms:	1700061J02Rik; Arp-T1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214003 representing NM_028514 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTGATCCAGCTAGATTAGATAATCCAGCTGTGATTTTTGACAATGGTTCTGGACTCTGTAAGTTG  
GAATTTCCAGGAGAGATTGAACCTCGTCATGTCACTCTGTCGTTGGGCACCCAAAATCAACATACC  
ATCTGCAAGATCTAATCGGAAAAGGTACTTTGTGGGAGAAGAAGCTCAGTGCATGTATGATGGCTTATAT  
CTACACTATCCTATTGAGCGTGGACTGGTAACTAGATGGGATGACATGGAAAACTGTGGAAGGATCTTT  
TTGAGTGGGAGCTAGGAGTGAAACCAATGAACAACCAGTTTTTCATGACTGAGCCCTCCTGAACCCACA  
AGAGACCCGAGAGAAGACCACAGAAATAATGTTTGAGAAATTTAACGTGCCTGCCTTGATCTTTGCAAC  
CACGCAGTAGGAGCCTTGTGTGCTTCTGCCTGTATCACTGGGCTGGTCCCTGGACAGTGGAGATGGTGCA  
CCTGCACTGTTCCCGTCTATGAAGGCTACTCTCTGCCTCATGCTATCACCAAGCTATATGTGGCAGGGAG  
AGATATCACAGAACACCTCACCCGACTCCTTCTTGCTAAAGGTTACACCTTCCCCTGCATCCTCAACAAA  
GCAGTGGTGGATGATATTAAGAGAAGTTATGACTGTCTCCTTGGGCTACAAAGACACAGAAAAGAATT  
GTCAGCAGTTCCTAAGAAAATACACACTGCCAGATGGGAATACTCCAGATGAGTGACCACCTGTGCCA  
GGTGCCTGAGGTTCTTTTTACACCTGACCATCTAGGTATTCATGATTTAGGAATCTCAAAAATGGTCTGC  
AACAGCATCATGAACTGTGACACTGACATCCAGGAGAATCTGTTTGTGAGATTGCTTTCTGGAGGTA  
CCACAATGTTTCCCGGGCTTCAGGATAGACTCCTGAAAGAATACTGAAAGATCTGGCTTTTGAGGGAACCCC  
TATCAAGATCACAGCTTCTCAGACAGATGTTATTCGGCTTGATTGGTGGATCTGTCATGACATCCATG  
ACAACATTCAAGCAGATGTGGGCTACTGCTGAGGACTTCAAAGATATGGGGCATTGTGGTTCAAAGAA  
AATGCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG214003 representing NM\_028514  
 Red=Cloning site Green=Tags(s)

MLDPARLDNPAVIFDNGSGLCKVGISGEIEPRHVINSVVGHPKFNIPSARSNRKRYFVGEEAQCMYDGLY  
 LHYP IERGLVTRWDDMEK LWKDLFEWELGVKPNQPVFMTEPSLNPQETREKTT EIMFEKFNVPALYLCN  
 HAVGALCASACITGLVLDSDGDVCTVPVYEGYSLPHAITKLYVAGRDI TEHL TRLLLAKGYTFPCILNK  
 AVVDDIKEKLC TVSLGYKDEKNCQQFLRKYTL PDGNTIQMSDHL CQVPEVLF TPDHLGIHDLGISKMVC  
 NSIMNCDTDIQENLFAEIVL SGGTTMFPGLQDRLLKELEDLAFEGTPIKITASSDRCYSAWIGGSVMTSM  
 TTFKQMWVTAEDFKEYGAFVVQRKCF

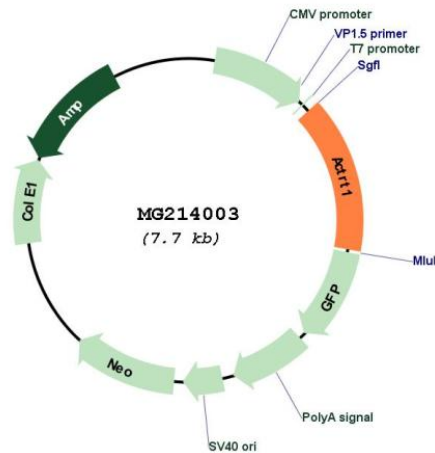
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_028514

<b>ORF Size:</b>	1128 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_028514.3</a> , <a href="#">NP_082790.1</a>
<b>RefSeq Size:</b>	1339 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	73360
<b>UniProt ID:</b>	<a href="#">Q9D9J3</a>
<b>Cytogenetics:</b>	X A4
<b>Gene Summary:</b>	Negatively regulates the Hedgehog (SHH) signaling. Binds to the promoter of the SHH signaling mediator, GLI1, and inhibits its expression.[UniProtKB/Swiss-Prot Function]