

Product datasheet for **MR214003**

Actrt1 (NM_028514) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Actrt1 (NM_028514) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Actrt1
Synonyms: 1700061J02Rik; Arp-T1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR214003 representing NM_028514
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTGATCCAGCTAGATTAGATAATCCAGCTGTGATTTTTGACAATGGTTCTGGACTCTGTAAGTTG
GAATTTCCAGGAGAGATTGAACCTCGTCATGTCACTCTGTCGTTGGGCACCCAAAATCAACATACC
ATCTGCAAGATCTAATCGGAAAAGGTACTTTGTGGGAGAAGAAGCTCAGTGCATGTATGATGGCTTATAT
CTACACTATCCTATTGAGCGTGGACTGGTAACTAGATGGGATGACATGGAAAACTGTGGAAGGATCTTT
TTGAGTGGGAGCTAGGAGTGAAACCCAATGAACAACCAGTTTTTCATGACTGAGCCCTCCTGAACCCACA
AGAGACCCGAGAGAAGACCACAGAAATAATGTTTGAGAAATTTAACGTGCCTGCCTTGATCTTTGCAAC
CACGCAGTAGGAGCCTTGTGTGCTTCTGCCTGTATCACTGGGCTGGTCCCTGGACAGTGGAGATGGTGCA
CCTGCACTGTTCCCGTCTATGAAGGCTACTCTCTGCCTCATGCTATCACCAAGCTATATGTGGCAGGGAG
AGATATCACAGAACACCTCACCCGACTCCTTCTTGCTAAAGGTTACACCTCCCCTGATCCTCAACAAA
GCAGTGGTGGATGATATTAAGAGAAAGTTATGACTGTCTCCTTGGGCTACAAAGACACAGAAAAGAATT
GTCAGCAGTTCCTAAGAAAATACACACTGCCAGATGGGAATACTCCAGATGAGTGACCACCTGTGCCA
GGTGCCTGAGGTTCTTTTTACACCTGACCATCTAGGTATTCATGATTTAGGAATCTCAAAAATGGTCTGC
AACAGCATCATGAACTGTGACACTGACATCCAGGAGAATCTGTTTGTGAGATTGTGCTTTCTGGAGGTA
CCACAATGTTTCCCGGGCTTCAGGATAGACTCCTGAAAGAATACTGAAAGATCTGGCTTTTGAGGGAACCC
TATCAAGATCACAGCTTCTCAGACAGATGTTATTCGGCTTGATTGGTGGATCTGTCATGACATCCATG
ACAACATTCAAGCAGATGTGGGCTACTGCTGAGGACTTCAAAGAGTATGGGGCATTGTGGTTCAAAGAA
AATGCTTT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR214003 representing NM_028514
Red=Cloning site Green=Tags(s)

MLDPARLDNPAVIFDNGSGLCKVGISGEIEPRHVINSVVGHPKFNIPSARSNRKRYFVGEEAQCMYDGLY
 LHYP IERGLVTRWDDMEKLWKDLFEWELGVKPNQPVFMTEPSLNPQETREKTTEIMFEKFNVPALYLCN
 HAVGALCASACITGLVLDSDGDVCTVPVYEGYSLPHAITKLYVAGRDITEHLTRLLAKGYTFPCILNK
 AVVDDIKEKLC TVSLGYKDEKNCQQFLRKYTL PDGNTIQMSDHL CQVPEVLF TPDHLGIHDLGISKMVC
 NSIMNCDTDIQENLFAEIVLSGGTTMFPGLQDRLLKELEDLAFEGTPIKITASSDRCYSAWIGGSVMTSM
 TTFKQMWVTAEDFKEYGAFVVQRKCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9061_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_028514

ORF Size: 1128 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_028514.3](#), [NP_082790.1](#)

RefSeq Size: 1339 bp

RefSeq ORF: 1131 bp

Locus ID: 73360

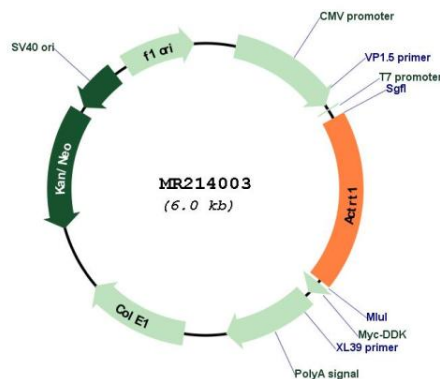
UniProt ID: [Q9D9J3](#)

Cytogenetics: X A4

MW: 42.2 kDa

Gene Summary: Negatively regulates the Hedgehog (SHH) signaling. Binds to the promoter of the SHH signaling mediator, GLI1, and inhibits its expression.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214003