

## Product datasheet for **RR209965**

### Actrt1 (NM\_001013961) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actrt1 (NM_001013961) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actrt1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209965 representing NM_001013961 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTTAATACGGCTAGATTAGATAATCCTGCCGTGATATTTGACAATGGTTCTGGACTCTGTAAGTTG  
GAATTTCCAGGAGAGATTGTACCCCGTCATGTCATCAACTCTGTTGTTGGCCACCCAAAATCAACATCCC  
ATCTGCAAGATCCAATCGGAAAAGTACTTTGTGGGAGAAGAAGCCAGTGCATGTATGACGGTTTATAC  
CTACACTATCCTATTGAGCGTGGACTGGTAACTAGATGGGATGACATGGAAAACTGTGGAAGGACCTTT  
TTGAGTGGGAGTTAGGAGTGAAACCCAATGAACAGCCAGTTTTTCATGACTGAACCTTCCTTGAACCCACG  
AGAAACCCGAGAGAAGACCACAGAAATAATGTTTGAGAAATTTAATGTACCTGCCTTGTACCTTTGCAAC  
CATGCAGTAGGAGCCCTGTGTCTTCTGCCTGTATCACGGCCTGGTACTGGACAGTGGAGATGGGGTTA  
CTTGCACTGTTCCAATCTACGAAGGCTACTCTCTTCTCGTGCTATCACCAAGCTATACGTAGCAGGGAG  
AGATATCACAGAACCTCACCCGACTCCTTCTGCTAAAGGCTACACCTTCCCCTGCATCCTCAACAAA  
GCAGTGGTAGATGATATTAAGAGAAGTTATGTACTGTCTCCTGGGCTCTAAAGATTGAGAAAAGTGTCT  
ATCAGCGTCCCTAAGTGAATACAAGCTGCCAGATGGGAATACCATCCAGATGAGTGACCACCTCTGCCA  
GGTGCCTGAAGTTCTTTTACACCTGAACATCTAGGTATTCATGATTTAGGAATCTCAAAAATGGTCTGC  
AACAGCATCATGAAATGTGACACTGATATCCAGGAGAACCTGTTTGCCGAGATTGTGCTTTCTGGAGGGA  
CCACACTGTTTCTGGGCTTCAGGATAGACTCCTGAAAGAACTAGAAGTTCTGGCTTTTGGAGGAACCC  
TATCAAGATCACAGCTTCTCCAGACAGATGCTATTCAGCTTGATTGGTGGATCTGTGATGACATCCTTG  
ACAACATTTAAGCAGATGTGGTCACTGCTGAAGATTTCAAGGAGTACGGGGCATTGTGGTGCAAAAGAA  
AATGCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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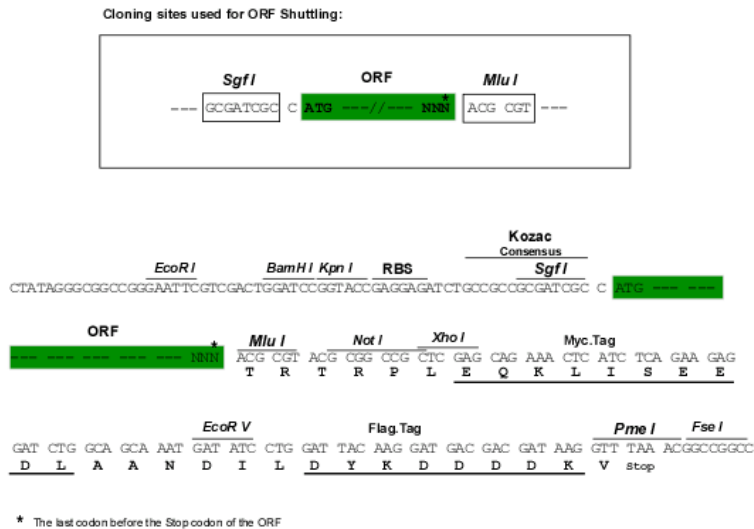
**Protein Sequence:** >RR209965 representing NM\_001013961  
 Red=Cloning site Green=Tags(s)

MLNTARLDNPAVIFDNGSGLCKVGISGEIVPRHVINSVVGHPKFNIPSARSNRKRYFVGEEAQCMYDGLY  
 LHYP IERGLVTRWDDMEKLWKDLFEWELGVKPNQPVFMTEPSLNPRETREKTTIEIMFEKFNVPALYLCN  
 HAVGALCASACITGLVLDSDGDVCTVPIYEGYSLPRAITKLYVAGRDITEHLTRLLAKGYTFPCILNK  
 AVVDDIKEKLC TVSWGSKDSEKCYQRSLSEYKLPDGNTIQMSDHL CQVPEVLF TPEHLGIHDLGISKMVC  
 NSIMKCDTDIQENLFAEIVLSGGTTLFPLQDRLLKEVLA FEGTPIKITASPDR CYS AWIGGSVMTSL  
 TTFKQMWVTAEDFKEYGAFVVQRKCF

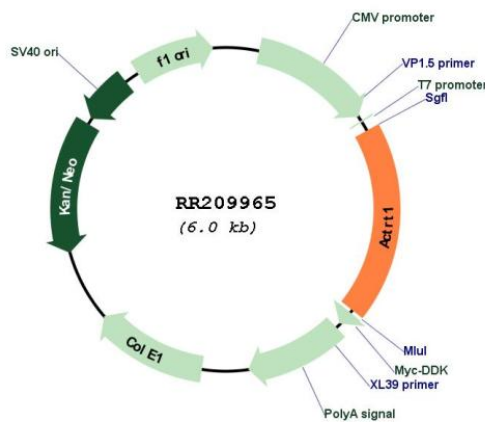
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001013961

<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_001013961.1</a> , <a href="#">NP_001013983.1</a>
<b>RefSeq Size:</b>	1393 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	302796
<b>UniProt ID:</b>	<a href="#">Q5XIK1</a>
<b>Cytogenetics:</b>	Xq35
<b>MW:</b>	42.2 kDa
<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]