

## Product datasheet for **RN209965**

### Actrt1 (NM\_001013961) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actrt1 (NM_001013961) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Actrt1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN209965 representing NM_001013961 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTAATACGGCTAGATTAGATAATCCTGCCGTGATATTTGACAATGGTTCTGGACTCTGTAAGTTG  
GAATTTCCAGGAGAGATTGTACCCCGTCATGTCATCAACTCTGTTGTTGGCCACCCAAAATCAACATCCC  
ATCTGCAAGATCCAATCGGAAAAGTACTTTGTGGGAGAAGAAGCCAGTGCATGTATGACGGTTTATAC  
CTACACTATCCTATTGAGCGTGGACTGGTAACTAGATGGGATGACATGGAAAACTGTGGAAGGACCTTT  
TTGAGTGGGAGTTAGGAGTGAAACCCAATGAACAGCCAGTTTTTCATGACTGAACCTTCCTTGAACCCACG  
AGAAACCCGAGAGAAGACCACAGAAATAATGTTTGAGAAATTTAATGTACCTGCCTTGTACCTTTGCAAC  
CATGCAGTAGGAGCCCTGTGTCTTCTGCCTGTATCACGGCCTGGTACTGGACAGTGGAGATGGGGTTA  
CTTGCACTGTTCCAATCTACGAAGGCTACTCTCTCCTCGTGCTATCACCAAGCTATACGTAGCAGGGAG  
AGATATCACAGAACCTCACCCGACTCCTTCTTGCTAAAGGCTACACCTTCCCCTGCATCCTCAACAAA  
GCAGTGGTAGATGATATTAAGAGAAGTTATGTACTGTCTCCTGGGCTCTAAAGATTGAGAAAAGTGTCT  
ATCAGCGTCCCTAAGTGAATACAAGCTGCCAGATGGGAATACCATCCAGATGAGTGACCACCTCTGCCA  
GGTGCCTGAAGTTCTTTTACACCTGAACATCTAGGTATTCATGATTTAGGAATCTCAAAAATGGTCTGC  
AACAGCATCATGAAATGTGACACTGATATCCAGGAGAACCTGTTTGCCGAGATTGTGCTTTCTGGAGGGA  
CCACACTGTTTCTGGGCTTCAGGATAGACTCCTGAAAGAACTAGAAGTTCTGGCTTTTGAGGGAACCCC  
TATCAAGATCACAGCTTCTCCAGACAGATGCTATTCAGCTTGATTGGTGGATCTGTGATGACATCCTTG  
ACAACATTTAAGCAGATGTGGTCACTGCTGAAGATTTCAAGGAGTACGGGGCATTGTGGTGCAAAAGAA  
AATGCTTT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001013961



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<b>Insert Size:</b>	1131 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001013961.1</a></u> , <u><a href="#">NP_001013983.1</a></u>
<b>RefSeq Size:</b>	1393 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	302796
<b>UniProt ID:</b>	<u><a href="#">Q5XIK1</a></u>
<b>Cytogenetics:</b>	Xq35
<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]