

## Product datasheet for **RN202011**

### **Actn4 (NM\_031675) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Actn4 (NM_031675) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Actn4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN202011 representing NM\_031675  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGGACTATCACGGCGCAACCAGGCGTACCAGTACGGCCCAAGCAGCGCGCAATGGCACGGGCG  
 GCGGCGGAGGCATGGGCGACTACATGGCCAGGAGGATGACTGGGACCGGACCTGCTGTTGGACCGGC  
 CTGGGAGAAGCAGCAGCGCAAGACCTTCACAGCCTGGTGAACCTCCATCTGCGGAAGGCTGGCACTCAG  
 ATCGAGAACATCGATGAGGATTTCCGGGATGGGCTCAAACCTTATGCTTCTGCTGGAGGTCATTTACGGGG  
 AGCGGTTGCCTAAGCCAGAGCGGGGAAGATGCGAGTGCACAAGATCAACAATGTAAACAAGCCCTGGA  
 CTTTCATCGCCAGCAAGGGAGTCAAGCTGGTGTCCATTGGGGCAGAAGAGATCGTGGATGGCAATGCAAAAG  
 ATGACCCTGGGAATGATCTGGACCATCATCCTCAGGTTCCCATCCAAGACATCTCTGTGGAAGAGACCT  
 CTGCCAAGGAAGGACTCCTCCTCTGGTCCAGAAAAGACAGCCCGTATAAAAACGTCAACGTCCAGAA  
 CTTCCATATCAGCTGGAAGGATGGTCTGGCCTTCAACGCGCTCATCCACCGGCACAGACCTGAGCTGATT  
 GAGTATGACAAACTGAGGAAGGATGATCCAGTCAACAACCTAAACAATGCATTTGAAGTGGCTGAGAAAT  
 ACCTTGATATCCCAAGATGTTGGATGCTGAGGACATCGTGAACACAGCCCGGCCGACGAGAAGGCCAT  
 AATGACATATGTGTCCAGCTTCTACCATGCCTTTTCAGGAGCGCAGAAGGCTGAGACTGCTGCCAACCGG  
 ATCTGCAAGGTGCTGGCTGTGAACCAGGAAAATGAGCACCTGATGGAAGATTACGAGCGCCTGGCCAGTG  
 ATCTTCTAGAGTGGATCCGGCGCACCATCCCTGGCTGGAAGACCGTGTGCCTCAGAAGACCATCCAGGA  
 GATGCAGCAGAAGCTGGAGGACTTCCGAGACTATAGGCGTGTGCAACAAGCCCCCAAGGTACAGGAGAAG  
 TGTCAGCTGGAGATCAACTTCAACACCTGCAGACCAAGCTGCGGCTGAGCAACCGGCTGCCTTCATGC  
 CCTCCGAGGGCAGGATGGTCTCGGACATCAACAATGGGTGGCAACATCTGGAGCAGGCTGAGAAGGAGT  
 TGAAGAATGGCTCTTGAATGAAATCCGTAGGCTGGAACGACTTGATCACCTGGCAGAGAAAATCCGGCAG  
 AAGGCTTCCATCCATGAGGCCTGGACCGATGGGAAGGAGGCCATGCTGAAGCACCAGGACTATGAGACAG  
 CCACCCTGTGAGACATCAAAGCTCTGATCCGAAAGCATGAGGCCTTTGAGAGTGAACCTGGCGGCGACCA  
 GGACCGGTGGAGCAGATCGCGGCTATTGCCAGGAGCTCAACGAACTGGACTACTATGACTCCCAAC  
 GTCAACACACGGTGCCAGAAGATCTGTGACCAGTGGGATAACCTGGGCTCTGTGACCCACAGTGCAGGG  
 AAGCCTTGAGAAAACAGAGAAACAGCTGGAGACCATCGACCAGTACACTTGGAGTATGCTAAGCGGGC  
 CGCGCCCTTCAACAACCTGGATGGAGAGTCCATGGAGGACCTGCAGGACATGTTTCATCGTCCACACCATC  
 GAGGAGATTGAGGGCCTGATCTCAGCCACGACAGTTCAAGTCCACCCTGCCAGATGCCGACAGGAGC  
 GTGAGGCCATCCTGGCCATCCACAAGAGGCCAAAGGATCGCTGAGAGCAATCACATCAAGCTGTCCGGG  
 CAGCAACCCCTACACCAGCGTTACACCCAGATCATCAACTCAAATGGGAGAAGGTGCAGCAGCTGGTG  
 CCGAAGCGGGACACGCACTCCTGGAAGAGCAGAGCAAGCAGCAATCAAATGAGCACCTTCGCCGACAGT  
 TTGCCAGCCAAGCCAATATGGTGGGGCCCTGGATCCAGACCAAGATGGAGGAGATTGGGCGCATCTCCAT  
 CGAGATGAACGGGACTCTGGAAGACCAGCTGAGTCACTTGAAGCAGTACGAGCGCAGCATTGTGGACTAC  
 AAGCCCAACCTGGACTTGTGGAGCAGCAGCACCAGCTCATCCAGGAGGCCCTCATCTTCGACAACAAGC  
 ACACCAACTACACAATGGAGCACCTCCGTGTGGGCTGGGAGCAGTGTCTACCACCATTGCCCGCACCAT  
 CAACGAGGTAGAGAAATCAGATCCTCACCCGAGATGCCAAGGGCATCAGCCAGGAGCAAAATGCAGGATTC  
 CGAGCCTCCTTCAACCCTTTGACAAGGACCATGGCGGGGCACTGGGGCCTGAGGAATTCAGGCCTGCC  
 TCATCAGCCTGGGCTACGACGTGGAGAATGACCGGCAGGGTATGCTGAGTTCAACCGGATCATGAGTGT  
 GGTGACCCCAACCATAGTGGCCTCGTGACCTTCAAGCCTTCACTGACTTATGTCAAGGGAGACCACA  
 GACACAGACACCGCCGATCAGGTCATCGCTCCTTCAAGGTCCTGGCCGGGGACAAGAATTCATCACTG  
 CTGAGGAACTTCGGAGAGAGCTGCCCCTGACCAGGCTGAGTACTGCATCGCCCGCATGGCGCCCTACCA  
 GGGCCCTGATGCTGCTCCAGGCGCCCTTGACTACAAGTCTTCTACAGCCCTCATGGGGAGAGCGAC  
 CTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

<b>ACCN:</b>	NM_031675
<b>Insert Size:</b>	2736 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>	<a href="#">NM_031675.2</a> , <a href="#">NP_113863.2</a>
<b>RefSeq Size:</b>	3885 bp
<b>RefSeq ORF:</b>	2736 bp
<b>Locus ID:</b>	63836
<b>UniProt ID:</b>	<a href="#">Q9QXQ0</a>
<b>Cytogenetics:</b>	1q21
<b>Gene Summary:</b>	alpha-actinin cytoskeletal protein that anchors various actin-containing microfilaments to cellular structures; anchors V myosins to cellular structures via the RING finger-containing protein BERP [RGD, Feb 2006]