

## Product datasheet for **RN211748**

### Actn3 (NM\_133424) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actn3 (NM_133424) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Actn3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN211748 representing NM\_133424  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGATGGTTATGCAGCCCGAGGGTCTGGGGCCGGGAGGGCCCTTCTCTGGTGGCGGGGGCGGTG  
 AGTACATGGAACAGGAGGAAGACTGGGACCGCACTTGCTGTTGGATCCTGCCTGGGAGAAAACAGCAGCG  
 GAAAACCTTCACTGCATGGTGAACCTCCATCTGCGCAAGGCAGGCACACAGATCGAGAACATTGAAGAG  
 GACTTCCGCAATGGCCTGAAGCTCATGCTGCTCCTGGAGGTCATTTCTGGAGAGAGGCTGCCAGGCCAG  
 ACAAAGGCAAGATGCGCTTCCACAAAATCGCCAATGTCAACAAAGCCCTGGACTTCATTGCCAGCAAAGG  
 AGTTAAGCTAGTGCATCGGTGCTGAAGAAATGTTGACGGAACTGAAGATGACCCTGGGCATGATC  
 TGGACCATCATCTCCGCTTGGCATTCCAGGACATCTGTAGAAAGAGACCTCAGCCAAAGAAGGCTTGC  
 TTCTCTGGTGTGACGGAAAACAGCACCATAACCGCAATGTCAACGTACAGAACTCCATACCAGCTGGAA  
 GGATGGCCTGGCCCTCTGTGCTCATCCACCGCCACCGCCAGATCTCATTGACTATGCCAAGCTTCGC  
 AAGGATGACCCATTGGAACCTGAACACTGCCTTTGAGGTGGCAGAGAAATACCTGGACATCCCTAAGA  
 TGCTGGATGCAGAAGATATTGTGAACACCCCAAAACCAGATGAGAAAGCCATCATGACCTATGTTTCCTG  
 CTTCTACCATGCATTTGCTGGGGCTGAGCAGGCAGAGACTGCTGCCAACAGGATCTGCAAGGTCTTAGCT  
 GTGAACCAGGAAAACGAGAAGCTGATGGAGGAGTATGAGAACTGGTAGTGAGCTGTTGGAGTGGATCC  
 GCCGCACTGTCCCATGGCTAGAGAACCAGTGGGTGAACCCAGCATGAGTGCCATGCAGCGCAAGCTGGA  
 GGACTTCCGCGACTACAGGCGCTGCACAAGCCTCCCGTGTGCAGGAGAAGTCCAGCTGGAGATCAAC  
 TTCAACACGCTGCAGACCAAGCTGCGCCTGAGCCACCGACCTGCTTTCATGCCCTCAGAGGGCAAGCTGG  
 TTTCCGACATAGCCAATGCGTGGCGGGACTGGAGCAGTGGAGAAGGGCTATGAGGACTGGCTGCTTTTC  
 AGAGATCAGGCGCTGCAGAGGCTTCAGCACCTGGCTGAGAAGTCCAGCAGAAGGCTTCCCTGCATGAA  
 GCTTGGACCCGGGCAAAGAGGAAATGTTAAACCAGCATGACTACGAGTACAGCTTCGCTGCAGGAGTGC  
 GTGCGCTCTTGCAGCTCATGAGGCCTTTGAGAGCGACTTGGCTGCACATCAAGACCGGGTGAACACAT  
 TGCAGCCCTGGCCAGGAACTCAATGAGCTGGACTACCATGAGGCAGCCTCGGTGAATAGCCGCTGCCAA  
 GCCATCTGCGACCAGTGGGATAACTTGGGTACTGACCAGAAGAGGAGGGATGCACTAGAGAGAATGG  
 AGAAGCTCCTGGAACCATGACCAGCTGCAGCTGGAGTTTGGCTCGCGGGCAGCGCCCTCAACAACCTG  
 GCTGGATGGGGCTATTGAGGACCTGCAGGATGTGTGGCTAGTGCCTCTGTAGAAGAGACGCAGAGCCTG  
 CTAACAGCACATGAACAGTTCAAGGCAAGTTGCCTGAGGCGGATCGAGAGCGAGGTGCCATCCTGGGCA  
 TTCAAGGAGAGATTCAGAAGATCTGTGAGACGTATGGACTGCGGCCAAAGTCTGGCAACCCCTACATCAC  
 CCTCAGCTCGCAGGACATCAACAATAAGTGGGACACGGTCAAGAAAGCTGGTACCCAGCCGTGACCAGACA  
 CTGCAGGAGGAGCTGGCCCGGCAGCAGGTGAATGAGAGGCTCCGGCGACAGTTTGCAGCCAGGCCAATG  
 CCATAGGACCCCTGGATCCAGGAAAGGTGGAGGAAGTAGGGCGGCTGGCAGCTGGGCTGGCTGGCTCTCT  
 GGAGGAGCAGATGGCAGGTCTGCGACAGCAGGAGCAGAACATCATCAATTACAAGAGCAACATCGACCGG  
 CTGGAGGGTGACCACAGCTGCTGCAGGAGGGCCTAGTCTTTGACAACAAGCACACGGTCTACAGCATGG  
 AGCACAATCCGTGTGGCTGGGAGCAGCTGCTCACCTCCATTGCCCGCACCATCAATGAGGTGGAGAACCA  
 GGTAAGTACCCGAGATGCCAAGGGCTGAGCCAGGAACAGCTCAACGAGTTCGGGCATCTTTCAACCAC  
 TTTGACCGGAAGCGGAATGGGATGATGGAACCTGATGATTTCCGAGCTTGCCTCATCTCCATGGGCTATG  
 ATCTGGGAGAGGTGGAGTTTGTCTCGGATCATGACCATGGTGGACCCCAATGCAGCTGGGGTCTGTACCTT  
 CCAAGCCTTCAATTGACTTCATGACCCGAGAGACTGCAGAGACAGACAGCTGAACAAGTTGTAGCCTCC  
 TTCAAAAATCCTAGCAGGAGACAAGAACTACATTACCCAGAAAGCTGCGGAGGGAGCTCCAGCCGAGC  
 AGGCTGAGTACTGCATCCGTCCGATGGCACCTACAAAGGATCGGGGGCTCCGTCCGGGGCCCTGGACTA  
 CGTGGCTTTCTAGTGCCTCTACGGAGAGAGTGACCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_133424

<b>Insert Size:</b>	2703 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_133424.2</a></u> , <u><a href="#">NP_596915.1</a></u>
<b>RefSeq Size:</b>	2904 bp
<b>RefSeq ORF:</b>	2703 bp
<b>Locus ID:</b>	171009
<b>Cytogenetics:</b>	1q43
<b>Gene Summary:</b>	alpha-actinin cytoskeletal protein that anchors actin-containing thin muscle fiber filaments; may share functional redundancy with Actn2, which binds the NMDA receptors to provide postsynaptic cytoskeletal crosstalk [RGD, Feb 2006]