

Product datasheet for **RN217307**

Actn2 (NM_001170325) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actn2 (NM_001170325) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Actn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217307 representing NM_001170325
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCAGATAGAGCCCGCGTGCAGTACAACACTATGTCTACGACGAAGATGAGTACATGATCCAGGAGG
 AGGAGTGGGACCGCGACCTGCTCCTCGACCCGGCTGGGAGAAGCAGCAGAGGAAGACTTTCACCTGCCTG
 GTGCAACTCGCACCTGCGCAAAGCCGGCACCCAGATCGAGAACATAGAGGAGGATTTTCAGGAATGCCTC
 AAGCTCATGCTGCTTCTGGAAGTCATCTCAGGGGAAAGGCTTCCCAAACCTGACCGGGGCAAATGCGGT
 TCCACAAGATTGCGAATGTCAACAAGGCTTTGGATTACATAGCCAGCAAGGGAGTGAAATGGTATCTAT
 TGGGGCTGAAGAAATCGTCGATGGCAATGTGAAGATGACCCTGGGTATGATCTGGACCATCATCTCCGC
 TTCGCCATTCCAGGACATCTCAGTGAAGAAACATCTGCCAAAGAGGGCCTGCTGCTATGGTGTGAGGGA
 AGACAGCACCATACCGAAATGTGAACATCCAGAACTTCCACACCAGCTGGAAAGATGGCCTTGGACTCTG
 TGCCCTCATCCACAGACCCGGCCTGACCTCATCGACTACTCAAAGCTTAAACAAGGATGACCCCATAGGA
 AACATTAACTGGCCATGGAAATAGCAGAGAAGCACTTGGATATCCCTAAAATGTTGGATGCTGAAGACA
 TTGTCAACACTCCCAAACCCGATGAAAGAGCCATCATGACTTACGTTTCTGCTTCTACCATGCTTTCGC
 GGGAGCGGAGCAGGCCGAGACGGCAGCTAACAGGATATGTAAGGTTCTTGCTGTGAATCAAGAGAATGAG
 AGGCTGATGGAAGAATATGAGAGGCTAGCGAGTGAGCTTTGGAATGGATTTCGACGCACAATCCCCTGGC
 TGGAGAACAGGACACCGGAGAAGACCATGCAAGCCATGCAGAAGAAGCTGGAGGACTTCCGGGACTATCG
 TCGTAAGCACAAGCCCCAAAGGTGCAGGAGAAGTGCCAGCTGGAGATCAACTTCAACACCTGCAGACC
 AAGCTTCGGATCAGCAACCGCCTGCCTTCATGCCCTCCGAGGGCAAGATGGTGTGCGACATTGCTGGTG
 CCTGTCAGAGGTTGGAGCAGGCCGAGAAGGGCTATGAGGAATGGCTATTGAATGAGATTCGAAGCTGGA
 GCGCTTGGAGCACTTGGCTGAGAAGTTTCAGGCAGAAAGGCCTCCACCCATGAGACATGGGCTTACGGCAA
 GAACAGATCTTGCTGCAGAAGGACTATGAGTCTCGTCCCTGACGGAAGTTCGAGCCCTACTTCCGAAGC
 ACGAGGCCCTTGAGAGTGACCTGGCGGCACACCAGGATCGTGTGGAACAGATTGCAGCCATTGCTCAGGA
 GCTCAATGAAGTGGACTACCACGATGCTGTGAACGTCAATGATCGTTGCCAGAAAATTTGCGACCAGTGG
 GATAGATTGGGGACGCTCACCCAGAAGAGGAGGGAGGCCCTGGAGAGAACCAGAAAGTTGCTAGAAAACA
 TTGACCAGCTGCACCTGGAGTTTGCCAAGAGAGCTGCGCCCTTCAACAAGTGGTGGAGGGGCCATGGA
 GGACCTGCAGGACATGTTTCATCGTCCACAGCATTGAGGAGATCCAGAGTCTGATCACCGCACATGAGCAG
 TTCAAGGCCACGCTGCCGAGGCCGATGGGAGCGGCAGTCCATCCTAGCCATCCAGAATGAGGTGGAGA
 AGGTGATCCAGAGCTACAGTATCCGGATCAGCTCCAGCAACCCCTACAGCACTGTACCATGGACGAGCT
 GCGCAACAAGTGGGACAAGGTGAAGCAGCTGGTGCCAGTCCGGGATCAGTCCCTGCAGGAGGAGCTGGCA
 CGCCAACATGCTAATGAGCGCCTACGGCGCCAGTTTGCTGCCAGGCCAATGCCATCGGCCCTGGATCC
 AGAACAAGATGGAGGAGATCGCTCGGAGCTCCATCCAGATCACAGGGGCCCTGGAGGACCAGATGAACCA
 GCTGAAGCAGTACGAGCACAACATCACTCAACTACAAGAACAACATTGACAAGCTGGAGGGCGACCACCAG
 CTCATCCAGGAAGCCCTGGTCTTCGACAACAAGCACACCAACTACCCATGGAGCATATCCGTGTCCGAT
 GGGAGTTGCTGCTCAACTATCGCCAGAACCATCAATGAGGTGGAGACCCAGATCCTGACAAGAGATGC
 CAAGGGCATCACCCAGGAGCAGATGAATGAGTTCAGAGCCTCCTTCAACCACTTTGACAGGAGGAAGAAT
 GGCTGATGGATCATGAGGATTTAGAGCCTGCCTCATTTCATGGGCTATGACTTGGGTGAAGCTGAGT
 TTGCCGAATTATGACTCTGTTGACCCCAACGGACAAGGCACGGTACCTTCCAGTCTTCATTGACTT
 CATGACTAGAGAGACCGACAGACCGGACTGCAGAACAGGTCATCGCCTCCTTCCGGATTCTGGCTTCT
 GATAAGCCTTACATCTTGGCAGAGGAACTTCGTCGAGAGTGCCTCCGGATCAGGCCAGTACTGCATCA
 AGAGAATGCCCCATACTCAGGCCAGGAGTGTCCCGGGGCCCTGGACTACACTGCCTTCTCCTCTGC
 CCTTACGGGGAGAGCGACCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001170325

Insert Size:	2685 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001170325.1, NP_001163796.1</u>
RefSeq Size:	2943 bp
RefSeq ORF:	2685 bp
Locus ID:	291245
Cytogenetics:	17q12.1