

## Product datasheet for **RN204131**

### **Atn1 (NM\_017228) Rat Untagged Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Atn1 (NM\_017228) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Atn1  
 Synonyms: Drpla  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN204131 representing NM\_017228  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGAAGACACGACAGAATAAAGACTCGATGTCAATGAGGAGTGGACGGAAGAAAGAGGCCCCCGGGCCCC  
 GGAAGAGCTGAGATCGAGGGGCCGGCCCTCCCCTGGAGGGGTGACGACGTCCAGCAGTGTGGCAAAGC  
 CGAGAAATCCAGGCAGACAGCCAAGAAGGCCCGAGTAGAGGAGACCTCTACCCAAAAGCCAACAAGCAG  
 GGCCGGAGCGAGGAGATCTCAGAGAGTGAAAGCGAAGAGACCAGTGCGCCAAAAAGACCAAGACCGAGG  
 AGCTTCCGCGCCACAGTCTCCCTCGGATCTGGACAGCTTAGATGGCCGACGATCAACGATGACGGCAG  
 CAGTGACCCTAGAGATATAGACCAGGACAACCGAAGCACATCCCCAGCATCTACAGCCCTGGCAGTGTG  
 GAAATGACTCGGATTCATCCTCTGGCCTGTCCAGGGCCCGGCTCGCCCTACCACCCACTCCACTCT  
 TTCCTCCTCCCTCCACCACGACAGCATTCCCGACAGCCAGAGTCTGGCTTTGAACCGCACCTTC  
 TGTGCCGCTACTGGATATCATGCTCCAATGGAGCCCCCACATCTCGGTTATCCAGGGCCACCTCCT  
 GGAGCTCCTCCCCACACCCACAGCTCTACCCTGGGAGTGTGGTGGAGGTGTTTATCTGGACCCCCCA  
 TGGGTCCCAAAGGGGAGCAGCCCTCCTCAGTGGGTCCCTAGTGGGGCAAGCAGCACCCCCACC  
 CACTACCCCAATTCCAATATCAAGCTCTGGGGCCAGTGGCGCTCCTCCAGCAAAGCCCCCAATACTCCA  
 GTGGGTGCTGGGAACCTTCTGCTCCACCACAGCTACTTCCCCACGTGACACCAAACTGCCTC  
 CTCACCTGCCCTGAGACCCCTCAACAATGCCTCAGCCTCTCCTCCTGGCATGGGGCTCAGCCAATCCC  
 TGGGCATCTGCCCTCTCCCATGCCATGGGGCAGGGTATGAGTGGACTTCTCCTGGCCAGAGAAGGGC  
 CCAACCTGGCCCTCTCCACCCCTTACCCTGGCTTCTTCTCCGCTCCTGGGCCCAATGCGGT  
 ACCCGTATTCATCCTGCTCCAGTAGCTCTGTTGCAGCGTCTTCTAGTTCTCCGCCACCTCCCAGTA  
 CCCAGCTTCCAGACCTGCCAGTTACCCTCACTCCTCCCCCAACAAGTATGTCTGTCTAAT  
 CAGCCACCAAGTACACCAGCCTTCTCTCCATCCCAGGCTGTGTGGAGCCAGGGCCACCTCCTCCTC  
 CTCTTATGGCCGCTCTTGCCCAACAACAACACTCATCCGGGCCCTTTCCTCCTACCGGGGTCAATC  
 CACAGCCACCCGCCAGCCCTGCACATCACCATCACCAGCAGCAGCAGCCACAGCCACAGCCACAG  
 CCACAGCCGCAACAACATCATATGAAACTCTGGGCCCTCCACCTGGGGCATATCTCACCCCTAG



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AGAGCAGTAACTCCCACCATGCACACCCTTACAACATGTACCCTCCCTGGGGTCTTTGAGGCCCTACCC
ACCAGGGCCAGCACACCTGCCTCCGTCTCATGGCCAGGTGTCTTAGCCAAGCAGGTCCCAATGGTCCC
CCGGTTTCTTCTTCTTCCAACCTTCCGGGTCTTCGTCTCAAGCCGCCTATTCATGCTCACACCCTTCTT
CATCCCAGGGCCCCAAGGGGCATCTACCCTTCCCACCAGTTCCTCCAATCACCACCTCCTCAGCTAC
TCTTCCACTGTCATCGCCACCGTGGCTTCCTCGCCAGCAGGTTATAAGACAGCCTCACCACCTGGCCCC
CCTCAGTACAGCAAGAGAGCCCCATCCCCAGGGTCTACAAGACAGCCACCCCGCCTGGATAACAAGCCAG
GGTCACCACCGTCTTTCAGAACAGGGACCCACCTGGCTATCGAGGCACCTCTCCGCCAGCAGGCCCAGG
GACCTTCAAGCCAGGTTACCCACCGTGGGGCCGGGGCCCTACCACCCGCGGGCTTCAAGTTTGTCA
TCTCTGCCTCCACCACCCGCGGCCCGACTACAGGGCCGCCCTGACTGCCACGCAGATCAAACAGGAAC
CAGCTGAAGAGTATGAAACCCCCGAGAGTCCGGTGCCTCCGGCTCGCAGCCCTCGCCCCCTCTAAGGT
GGTGGACGTGCCTAGCCATGCCAGCCAGTCAAGCAGGTTCAATAAGCACCTGGACCGTGGCTTCAACTCG
TGCGCGCGCAGCGACCTGTACTTTGTGCCGCTGGAGGGATCCAAGCTGGCCAAGAAGCGCGGACCTGG
TGGAGAAAGTGCGGCGCAGGGCCGAGCAGCGCGCGCGAAGAAAAGAGCGGAGCGGAGCGGGAAACG
TGAGAAGGAGCGGAGCGGAGAAAGAGCGCGAGCTGGAGCGCAGTGTGAAATTGGCCAGGAGGGCCGT
GCTCCAGTGGAGTCCCCGTCCCTGGGTCCAGTGCCTCCCTTGAACCTGGCAGCGCTGTGG
CTACCGTGCCCTTACCTGGGTCTGATACTCCAGCCCTGCGCACTCTCAGTGAATACGCCCGACCTCA
TGTCATGTCTCCTGGCAATCGCAACCACCATTCTATGTGCCCTTGGGGCAGTGGACCCGGGGTCTGTG
GGTTACAATGTCCAGCCCTGTACAGCAGCGACCCAGTGCCTCGAGAACGGGAGCGGGAAGCCCGTGAAC
GTGACCTCCGTGACCGGCTCAAGCCTGGCTTTGAGGTGAAACCTAGTGAGCTGGAACCCCTACATGGGGT
CCCCGGCCAGGCTGGATCCCTTCCCCGACACGGGGCCCTGGCTCTACAACCTGGGCCACCTGGCCTG
CATCCTTTCCCTTTTTCATCCGAGCCTGGGGCCCTGGAACGAGAACGGCTAGCGCTGGCAGCTGGCCAG
CCCTGCGTCTGACATGTCTTATGTGAGCGGTTGGCAGCTGAAAGGCAGCATGCAGAAAGGGTGGCAGC
CCTGGCAATGACCCACTAGCCCGGCTGCAGATGCTCAACGTGACTCCCATCATCACCAGCACTCCCAC
ATCCACTCTACCTACACCTGCACCAGCAGGATGCCATCCATGCGGCCTCCGCCTCGGTGCACCCTCA
TTGACCCCTGGCCTCAGGGTCTCACCTTACCCGGATCCCCTACCCAGCTGGGACCCTCCCTAATCCCT
TCTTCTCACCTCTGCACGAGAACGAAGTTCTTCGTACCAGCTCTTTGCTGCCCTTACCGGGACCTA
CCGGCCTCTATCTGCGCAATGTGAGCCGCCATCAGCTGCAGGCCATGCACGCACAGTCAAGCCGAGC
TGCAGCGCTTGGCACTGGAACAGCAACAGTGGCTGCACGCTCATACCCATTGCACAGCGTCCCGTGC
TGCCAGGAGGACTACTACAGTCACCTGAAGAAGGAGAGTGACAAGCCGCTGTAG

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**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_017228
- Insert Size:** 3555 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).
- 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:**

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:** [NM\\_017228.3](#), [NP\\_058924.2](#)

**RefSeq Size:** 4338 bp

**RefSeq ORF:** 3555 bp

**Locus ID:** 29515

**Cytogenetics:** 4q42

**Gene Summary:** widely expressed gene; expansion of CAG trinucleotide repeat in human homolog causes dentatorubral pallidoluysian atrophy, a degenerative neurological disorder similar to Huntington disease [RGD, Feb 2006]