

## Product datasheet for **RR204131**

### Atn1 (NM\_017228) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atn1 (NM\_017228) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Atn1  
**Synonyms:** Drpla  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204131 representing NM\_017228  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC

ATGAAGACACGACAGAATAAAGACTCGATGTCAATGAGGAGTGGACGGAAGAAAGAGGCCCCCGGGCCCC  
GGGAAGAGCTGAGATCGAGGGGCCGGCCCTCCCCTGGAGGGGTGACGACGTCCAGCAGTGTGGCAAAGC  
CGAGAAATCCAGGCAGACAGCCAAGAAGGCCCGAGTAGAGGAGACCTCTACCCAAAAGCCAACAAGCAG  
GGCCGGAGCGAGGAGATCTCAGAGAGTGAAAGCGAAGAGACCAGTGCGCCAAAAAGACCAAGACCGAGG  
AGCTTCCGCGCCACAGTCTCCCTCGGATCTGGACAGCTTAGATGGCCGACGATCAACGATGACGGCAG  
CAGTGACCCTAGAGATATAGACCAGGACAACCGAAGCACATCCCCAGCATCTACAGCCCTGGCAGTGTG  
GAAATGACTCGGATTCATCCTCTGGCCTGTCCAGGGCCCGGCTCGCCCTACCACCCACTCCACTCT  
TTCCTCCTCCCTCCACCACGACAGCATTCCCGACAGCCAGAGTCTGGCTTTGAACCGCACCTTC  
TGTGCCGCTACTGGATATCATGCTCCAATGGAGCCCCCACATCTCGGTTATCCAGGGCCACCTCCT  
GGAGCTCCTCCCCACACCCACAGCTCTACCCTGGGAGTGTGGTGGAGGTGTTTTATCTGGACCCCCCA  
TGGGTCCCAAAGGGGAGCAGCCCTCCTCAGTGGGTCCCTAGTGGGGCAAGCAGCACCCCCACCA  
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GTGGGTGCTGGGAACCTTCTGCTCCACCACAGCTACTTTCCCCACGTGACACCAAACTGCCTC  
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ACCCGATTCATCCTGCTCCAGTAGCTCTGTTGCAGCGTCTTCTAGTTCTCCGCCACCTCCCAGTA  
CCCAGCTTCCCAGACCTGCCAGTTACCCTCACTCCTTCCCCCAACAAGTATGTCTGTCTAAT  
CAGCCACCAAGTACACCAGCCTTCTCTCCATCCCAGGCTGTGTGGAGCCAGGGCCACCTCCTCCTC  
CTCCTTATGGCCGCTCTTGCCCAACAACAACACTCATCCGGGCCCTTTCCCTCCTACCGGGGTCAATC  
CACAGCCACCCGCCAGCCCTGCACATCACCATCACCAGCAGCAGCAGCCACAGCCACAGCCACAG  
CCACAGCCGCAACAACATCATATGAAACTCTGGGCCCTCCACCTGGGGCATATCTCACCCCTAG



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AGAGCAGTAACTCCCACCATGCACACCCTTACAACATGTACCCTCCCTGGGGTCTTTGAGGCCCTACCC  
ACCAGGGCCAGCACACCTGCCTCCGTCTCATGGCCAGGTGTCTTAGCCAAGCAGGTCCCAATGGTCCC  
CCGGTTTCTTCTTCTTCCAACCTTCCGGGTCTTCGTCTCAAGCCGCCTATTCATGCTCACACCCTTCTT  
CATCCCAGGGCCCCAAGGGGCATCTACCCTTCCCACCAGTTCTCCAATCACCACCTCTCAGCTAC  
TCTTCCACTGTCATCGCCACCGTGGCTTCCTCGCCAGCAGGTTATAAGACAGCCTCACCACCTGGCCCC  
CCTCAGTACAGCAAGAGAGCCCCATCCCCAGGGTCTACAAGACAGCCACCCCGCCTGGATAACAAGCCAG  
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GACCTTCAAGCCAGGTTACCCACCGTGGGGCCGGGGCCCTACCACCCGCGGGCCTTCAAGTTTGTC  
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CCCTGGTCTGACATGTCTTATGCTGAGCGGTTGGCAGCTGAAAGGCAGCATGCAGAAAGGGTGGCAGC  
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TGCAGCGCTTGGCACTGGAACAGCAACAGTGGCTGCACGCTCATACCCATTGCACAGCGTCCCGTGC  
TGCCAGGAGGACTACTACAGTCACCTGAAGAAGGAGAGTGACAAGCCGCTG

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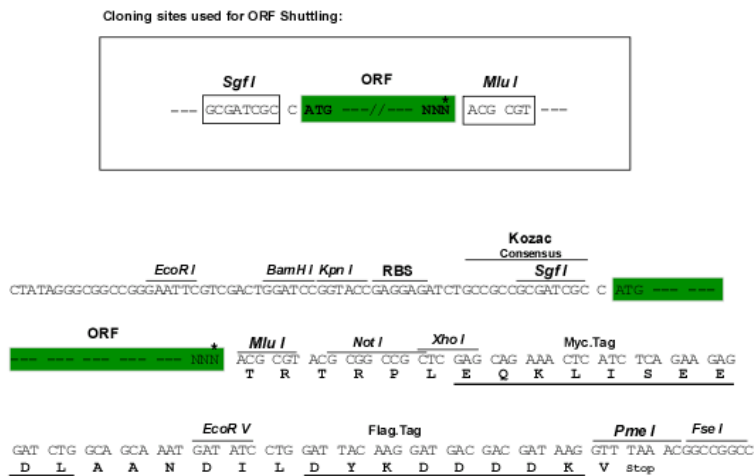
**Protein Sequence:** >RR204131 representing NM\_017228  
 Red=Cloning site Green=Tags(s)

MKTRQNKDSMSMRSGRKKKEAPGREELRSRGRASPGGVSTSSSDGKAESRQTAKKARVEETSTPKANKQ  
 GRSEIIESESESEETSAPKKTKEELPRPQSPDLDSLDRSINDDGSSDPRDIDQDNRSTSPSIYSPGSV  
 ENDSDDSSGLSQGPARYHPPPLFPPSPPPDIPRQPESGFEPHPSVPPPTGYHAPMEPPTSRLFQGPPP  
 GAPPPHPQLYPGSAGGGVLSGPPMPKGGAAASSVGPSSGGKQHPPTTPIPISSSGASGAPPKPPNT  
 VGAGNLP SAPPATFPHTPNLPPPALRPLNNASASPPGMAQPIPGHLPSPHAMGQMSGLPPGPEKG  
 PTLAPSPHPLPPASSAPGPPMRYPYSSSSSSVAASSSSAATSQYPAQTLPSPHSPFPPTSMYSVSN  
 QPPKYTQPSLPSQAVWSQGPPPPPYGRLLPNNNTHPGPFPTGGQSTAHPPAPAHHHHQQQQPQPQ  
 PQQPQHGGNSGPPPPGAYPHPLESSNSHHAHPYNMSPSLGSLRPYPGPAHLPPSHGQVYSQAGPNGP  
 PVSSSSNSGSSQAAYSCHPSSSQPGQASYPFPVPPITTSATLSTVIATVASSPAGYKTASPPGP  
 PQYSKRAPSPGSYKTATPPGYKPGSPSFRTGTPPGYRGTSPAGPGTFKPGSPTVGGPLPPAGPSSLS  
 SLPPPPAAPTTPPLTATQIKQEPAAEYETPESVPPARSPSPPKVVDVPSHASQSARFNKHLDRGFNS  
 CARSDL YFVPLEGSKLAKKRADLVEKVRREAEQRAREEKERERERERERERERERERERELERSVKLAQEGR  
 APVECPSLGPVPHRPPFEPGSAVATVPPYLGPDTPALRTLSEYARPHVMSPGNRNHPFYVPLGAVDPGLL  
 GYNVPALYSSDPAARERERERERDLRDLKPGFEVKPSELEPLHGVPGLDPFPRHGGLALQGPPLG  
 HPFPFHPSLGPLERERLALAAGPALRPDMSYAERLAAERQAERVAALGNDPLARLQMLNVTPHHHQHS  
 IHSHLHLHQQDAIHAASASVHPLIDPLASGSHLTRIPYPAGTLPNPLPHPLHENEVLRHQLEFAAPYRDL  
 PASL SAPPMSAAHQLQAMHAQSAELQRLALEQQQWLHAHPLHSVPLPAQEDYYSHLKKESDKPL

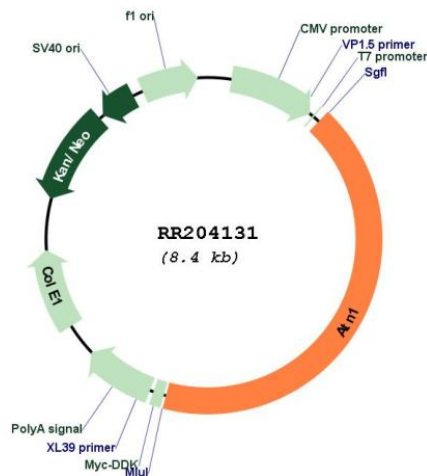
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_017228

**ORF Size:** 3552 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

**MW:** 124.9 kDa

**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]