

## Product datasheet for SC301135

### Atrophia 1 (ATN1) (NM\_001007026) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atrophia 1 (ATN1) (NM\_001007026) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ATN1  
**Synonyms:** B37; CHEDDA; D12S755E; DRPLA; HRS; NOD  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC301135 representing NM\_001007026.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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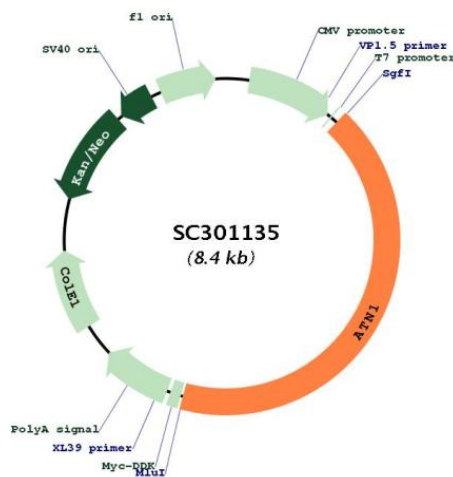
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:

SgfI-MluI

Plasmid Map:



<b>ACCN:</b>	NM_001007026
<b>Insert Size:</b>	3573 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001007026.1</a>
<b>RefSeq Size:</b>	4367 bp
<b>RefSeq ORF:</b>	3573 bp
<b>Locus ID:</b>	1822
<b>UniProt ID:</b>	<a href="#">P54259</a>
<b>Cytogenetics:</b>	12p13.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	125.4 kDa
<b>Gene Summary:</b>	<p>Dentatorubral pallidoluysian atrophy (DRPLA) is a rare neurodegenerative disorder characterized by cerebellar ataxia, myoclonic epilepsy, choreoathetosis, and dementia. The disorder is related to the expansion from 7-35 copies to 49-93 copies of a trinucleotide repeat (CAG/CAA) within this gene. The encoded protein includes a serine repeat and a region of alternating acidic and basic amino acids, as well as the variable glutamine repeat. Alternative splicing results in two transcripts variants that encode the same protein. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>