

## Product datasheet for **RG208519**

### Atrophin 1 (ATN1) (NM\_001940) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atrophin 1 (ATN1) (NM_001940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATN1
Synonyms:	B37; CHEDDA; D12S755E; DRPLA; HRS; NOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208519 representing NM_001940 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RG208519 representing NM\_001940  
 Red=Cloning site Green=Tags(s)

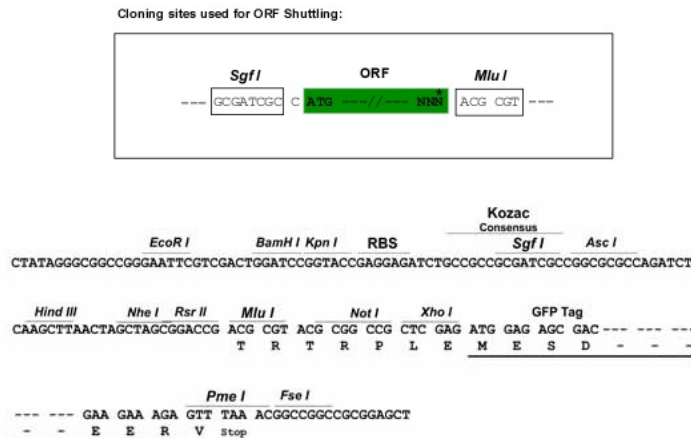
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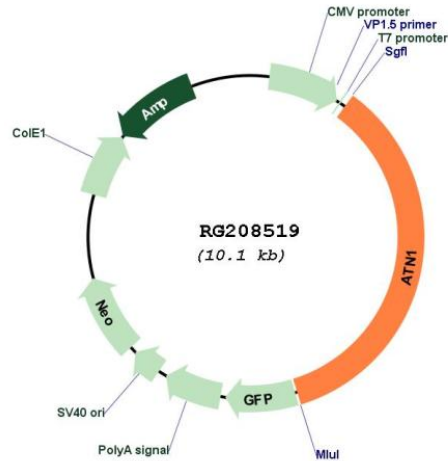
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001940

**ORF Size:** 3570 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\\_001940.3](#), [NP\\_001931.2](#)

**RefSeq Size:** 4360 bp

**RefSeq ORF:** 3573 bp

**Locus ID:** 1822

**UniProt ID:** [P54259](#)

**Cytogenetics:** 12p13.31

**Protein Families:** Druggable Genome

**Gene Summary:** 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]