

## Product datasheet for **RG201300**

### **ATXN10 (NM\_013236) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | ATXN10 (NM_013236) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | ATXN10                                    |
| Synonyms:                 | E46L; HUMEEP; SCA10                       |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>RG201300 representing NM\_013236  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCGCCAGGCCCGCCTGCCAGGCTGTGGGCGTCATGGTGCCGGCGCCCATCCAAGACCTGG  
 AGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGAGCAGCGGAACCGAGAAACAGCACCCAGGACTATCTT  
 CCAAAGAGTTCTGGATATCCTAAAGAAATCTTCTCATGCTGTTGAGCTTGCCCTGCAGAGATCCATCCCAA  
 GTGAAAAACCTGGCTTCCAGTCTGCAGTTAATAACAGAATGCTTCAGGTGTCTTCGCAATGCTTGCATAG  
 AGTGTCTGTGAACCAGAATTCAATCAGGAACCTGGATACGATTGGTGTGCTGTTGATTGATTCTTCT  
 GTTTCGTAAGTGCAGTGAACAGGAATCTCTGTTGACAGCTTTTCGCTGTGGCCTGCAGTTTTTAGGC  
 AACATTGCCTCACGGAATGAAGATTCACAGTCTATTGTTGGGTGCATGCTTCCAGAACTGTTTTTGT  
 CTTGCTTAAATCATCCGGACAAAAAATGTTGCCTACTCTTCAATGATTTTGTTCATCCCTTAATCA  
 TGAAGAATGAAAGAAGTGGAGGAGAACCTCAATATTGCAATTGATGTCATAGATGCTTACCAAAAAACAT  
 CCTGAATCAGAATGGCCGTTCTTGATTATTACAGACCTCTTCTGAAAAGCCCGGAATTGGTACAAGCCA  
 TGTTTCCCAAAGTGAACAATCAAGAAAGAGTTACTGTTAGACCTTATGATAGCCAAGATAACGAGTGA  
 TGAGCCACTACCAAGGATGACATCCCTGTGTTTTGCGGCATGCTGAGTTGATTGCAAGCACCTTTGTG  
 GATCAGTGCAAGACTGTGCTCAAGCTGGCCTCTGAGGAGCCTCCTGATGATGAGGAGGCACTGGCTACAA  
 TTAGGCTTCTCGACGCTCTGTGCGAAATGACTGTGAATACTGAGCTGCTCGGCTATCTGCAGTTTTCCC  
 TGGCTTGTGAAAGAGTGATTGATCTTTGCGGGTGATTCATGTAGCTGGAAAAGAAACCAACAACATC  
 TTCAGTAATTGTGTTGCGTGAGAGCAGAAGGTGACATCTCCAATGTGGCAATGGGTTAAGTCTCATC  
 TCATTCTGTGATTGAAATCTGTGTTACAAGATAAAGATAACCAAGACAAGGTAATAGCTGGATGG  
 TATCCCGTTGATCCTGGACAACGCAACATCAGTGACAGTAACCCCTTCTGACCCAGTGGGTGATATAT  
 GCCATCCGAAACCTTACCGAAGCAACAGCCAAAACCAAGATTTGATTGCAAAGATGGAGGAACAGGGGC  
 TGGCAGATGCATCCCTACTTAAAAAAGTGGGTTTTGAAGTTGAAAAGAAAGGCGAAAAGCTGATCTGAA  
 ATCTACTAGAGACACCCCTAAGCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201300 representing NM\_013236  
 Red=Cloning site Green=Tags(s)

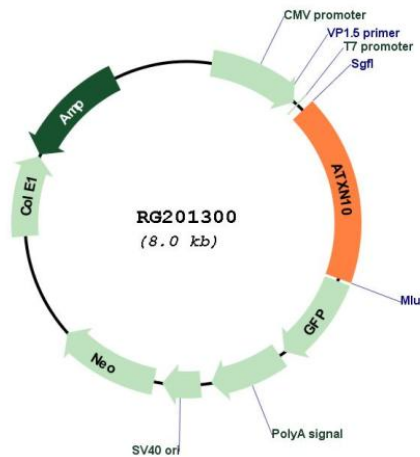
MAAPRPPPARLSGVMVPAPIQDLEALRALTALFKEQRNRETAPRTIFQRVLDILKKSSHAVELACRDPSQ  
 VENLASSLQLITECFRLRNACIECSVNQNSIRNLDTIGVAVDLILLFREL RVEQESLLTAFRCGLQFLG  
 NIASRNEDSQSIVVWHAFPELFLSCLNHPDKKIVAYSSMILFTSLNHERMKELEENLNIAIDVIDAYQKH  
 PESEWPFLIITDLFLKSPQLVQAMFPKLNQERVTLDDLMIAKITSDEPLTKDDIPVFLRHAELIASTFV  
 DQCKTVLKLASEEPPDDEALATIRLLDVLCEMTVNTPELLGYLQVFPGLLERVIDLLRVIHVAGKETTNI  
 FSNCGCVRAEGDISNVANGFKSHLIRLIGNLCYKNKDNQKVNELDGIPLILDNCNISDSNPFLTQWVIY  
 AIRNLTEDNSQNQDLIAKMEEQLADASLLKKGVEVEKKGEKLIKSTRDTPKP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_013236

**ORF Size:** 1425 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\\_013236.4](#)

**RefSeq Size:** 2963 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 25814

**UniProt ID:** [Q9UBB4](#)

**Cytogenetics:** 22q13.31

**Gene Summary:** This gene encodes a protein that may function in neuron survival, neuron differentiation, and neuritogenesis. These roles may be carried out via activation of the mitogen-activated protein kinase cascade. Expansion of an ATTCT repeat from 9-32 copies to 800-4500 copies in an intronic region of this locus has been associated with spinocerebellar ataxia, type 10. Alternatively spliced transcript variants have been described.[provided by RefSeq, Jul 2016]