

## Product datasheet for **SC115337**

### ATXN10 (NM\_013236) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATXN10 (NM_013236) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATXN10
Synonyms:	E46L; HUMEEP; SCA10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013236, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCAGGCCGCCCTGCCAGGCTGTCGGGCGTCATGGTGCCGGCGCCATCCAAGACCTGG
AGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGAGCAGCGGAACCGAGAAACAGCACCCAGGACTATCTT
CCAAAGAGTTCTGGATATCCTAAAGAAATCTTCTCATGCTGTTGAGCTTGCCTGCAGAGATCCATCCCAA
GTGGAAAACCTGGCTTCCAGTCTGCAGTTAATAACAGAATGCTTCAGGTGCTTCGCAATGCTTGCATAG
AGTGTTCGTGAACCAGAATTCAATCAGGAACCTGGATACGATTGGTGTGCTGTTGATTGATTCTTCT
GTTTCGTGAACCTGCGAGTGAACAGGAATCTCTGTTGACAGCTTTTCGCTGTGGCCTGCAGTTTTAGGC
AACATTGCCTCACGGAATGAAGATCCAGTCTATTGTTGGGTGCATGCTTCCAGAACTGTTTTTGT
CTTGCTTAAATCATCCGGACAAAAAATTGTTGCCTACTTCAATGATTTGTTTACATCCCTAATCA
TGAAAGAATGAAAGAAGTGGAGGAGAACCTCAATATTGCAATTGATGTCATAGATGCTTACCAAAAAACAT
CCTGAATCAGAATGGCCGTTCTTGATTATTACAGACCTCTTCTGAAAAGCCCGAATTGGTACAAGCCA
TGTTTCCCAAAGTGAACAATCAAGAAAGAGTTACACTGTTAGACCTTATGATAGCCAAGATAACGAGTGA
TGAGCCACTCACCAAGGATGACATCCCTGTGTTTTGCGGCATGCTGAGTTGATTGCAAGCACCTTTGTG
GATCAGTGCAAGACTGTGCTCAAGCTGGCCTCTGAGGAGCCTCCTGATGATGAGGAGGCACTGGCTACAA
TTAGGCTTCTCGACGCTCTGTGCGAAATGACTGTGAATACTGAGCTGCTCGGCTATCTGCAGGTTTTCCC
TGGCTTGCTGAAAGAGTGATTGATCTTTTGGGGTGATTTCATGATGCTGAAAAGAAACCACAAACATC
TTCAGTAATTGTGGTTGGTGAGAGCAGAAGGTGACATCTCCAATGTGGCCAATGGGTTTAAAGTCTCATC
TCATTCGCTGATTGAAATCTGTGTTACAAGAATAAAGATAACCAAGACAAGGTAATGAGCTGGATGG
TATCCCGTTGATCCTGGACAAGTCAACATCAGTGACAGTAACCCCTTTCTGACCCAGTGGGTGATATAT
GCCATCCGAAACCTTACCGAAGACAACAGCCAAAACCAAGATTTGATTGCAAAGATGGAGGAACAGGGGC
TGGCAGATGCATCCCTACTTAAAAAAGTGGGTTTTGAAGTTGAAAAGAAAGGCGAAAAGCTGATCCTGAA
ATCTACTAGAGACACCCCTAAGCCATGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_013236 unedited</p> <pre>CCGGTTCAGAATTGTAACCGACTCATATAGGCGGCCGCCCAATCGGCACGAGGCGAGGCC TCCCCCTTCTCCTCGCCAGCCTACTCCTCCATCCTCGTCAGCCTCCCCCTTCGTCTCC TCGCCTTCTCCTCCTCGTCAGGCTCGACCCAGCTGTGAGCGGCAAGATGGCGGCGCCCA GGCCGCGCCCTGCCAGGCTGTGGGCGTCATGGTGCCGGCGCCATCCAAGACCTGGAGG CCCTGCGCGCGCTCACGGTGTCTTCAAAGAGCAGCGGAACCGAGAAACAGCACCCAGGA CTATCTTCCAAAGAGTTCTGGATATCCTAAAGAAATCTTCTCATGTCTGTTGAGCTTGCCT GCAGAGATCCATCCCAAGTGGAACCTGGCTTCCAGTCTGCAGTTAATAACAGAATGCT TCAGGTGTCTTCGAATGCTTGCATAGAGTGTTCTGTGAACCAGAATTAATCAGGAACT TGGATACGATTGGTGTGCTGTTGATTTGATTCTTCTGTTTCGTGAACGCGAGTGGAAAC AGGAATCTCTGTTGACAGCTTTTCGCTGTGGCCTGCAGTTTTTAGGCAACATTGCCTCAC GGAATGAAGAGTCCCAGTCTATTGTTGGGTGCATGCTTCCAGAACTGTTTTGTCTT GCTTAAATCATCCGACAACAGAATTGTTGCCTACTCTTCAATGATTTTGTTTACATCCC TTCATCATGAAAGACTGAACGAACTGGAGGAGCACCTCAATATTGCCATTGATGCATAG ATGCTTACCAAAACATCCTGAATCAGAATGGCCGTTCTTGATTATTACAGACCTCNTCT GCACAGCCTGNCAGTGGTACAAGCCATGTTTCTCCAAGTGAACCATCAGAAGAGAGTTAC ACTGTTAGACCT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_013236 unedited</p> <pre>ACTATGGACCGCGGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTGGCAAAAAGGGTTGGGCCCTCAAAAAACTGGTTTATTATCTGCTGGCACAG TAAGTACAATATATTCTTTAAATGCACGTTCTATCCAGGGGACAAAGGCAAACACACA GTTACATTAATGCAAAGAAACAAGAGAACTCAGTTACTTTCACTTTTAACTTATACAC GTTAAACTCTACTACCTAAAAGATTTGTATGTTCCAAATTTGTACTTATAAATCTTCAA ACACTTGCAATTTACATACGGGAGAAAATGAAAATCCATGAAACAGATTCCAAAAATT CAGGGATTTGGATGTAGTTCATTCATGGCTTAAGGGGGCTCTAGTAAATTTAGGATCA GCTTTTCGCTTTCTTTCAACTTCAAACCCACTTTTTTAAGTAGGGATGCATCTGCCA GCCCTGTTCTCCATCTTTGCAATCAAATCTTGGTTTTGGCTGGTGGCTTCGGGAAGGG TTCGGATGGCATATATCACCCACTGGGTCAGAAAGGGTTACTGTCACTGATGTTGCAGT TGGAACACAGATTTTCAATCCGACCAATGAGATGAGACTTAAACCCACTGGCCACATTGG AGAAGTCACCTTCTGCTTTCACGCAACCCCAATTACTGAAGAGGTTTGGGGGTTCTTTTC CCTCCATGATAACCCGCAAAAAAATTAACCTTCTTCCACCAGCCAGGAAAACCGGG GAAAGCCCAACAGTTTATATTTCCAAGCCTTTTCCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013236
<b>Insert Size:</b>	1960 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>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).

**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\\_013236.2](#), [NP\\_037368.1](#)

**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]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).