

## Product datasheet for **SC328667**

### ATXN10 (NM\_001167621) Human Untagged Clone

#### Product data:

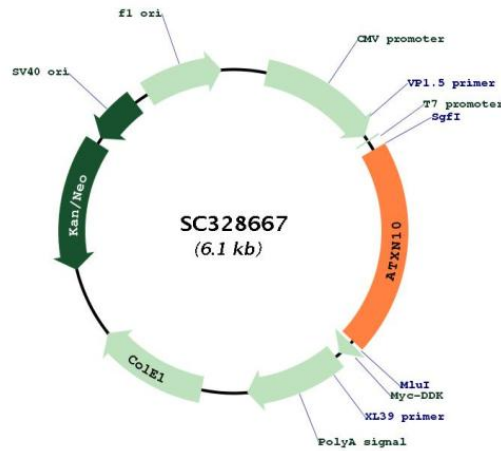
Product Type:	Expression Plasmids
Product Name:	ATXN10 (NM_001167621) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATXN10
Synonyms:	E46L; HUMEEP; SCA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328667 representing NM_001167621. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCGCCAGGCCGCCCTGCCAGGCTGTCGGGCGTCATGGTGCCGGCGCCCATCCAAGACCTG
GAGGCCCTGCGCGCGCTCACGGCGCTCTCAAAGAGCAGCGGAACCGAACTTGGATACGATTGGTGTT
GCTGTTGATTTGATTCTTCTGTTTCGTGAACTGCGAGTGAACAGGAATCTCTGTTGACAGCTTTTCGC
TGTGGCCTGCAGTTTTAGGCAACATTGCCTCACGGAATGAAGATTCCCAGTCTATTGTTGGGTGCAT
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CTTATGATAGCCAAGATAACGAGTGATGAGCCACTCACCAAGGATGACATCCCTGTGTTTTGCGGCAT
GCTGAGTTGATTGCAAGCACCTTTGTTGATCAGTGCAAGACTGTGCTCAAGCTGGCCTCTGAGGAGCCT
CCTGATGATGAGGAGGCACTGGCTACAATTAGGCTTCTCGACGTCCTGTGCGAAATGACTGTGAATACT
GAGCTGCTCGGCTATCTGCAGTTTTCCCTGGCTTGTGGAAGAGTGATTGATCTTTGCGGGTGATT
CATGTAGCTGAAAAGAAACCACAAACATCTTCAGTAATTGTGGTTGCGTGAGAGCAGAAGTGACATC
TCCAATGTGGCAATGGGTTAAGTCTCATCTCATTCTGCTGATTGAAAATCTGTGTTACAAGAATAAA
GATAACCAAGACAAGGTAATGAGCTGGATGGTATCCCGTTGATCCTGGACAACCTGCAACATCAGTGAC
AGTAACCCCTTTCTGACCAGTGGGTGATATAGCCATCCGAAACCTTACCGAAGACAACAGCCAAAAC
CAAGATTTGATTGCAAAGATGGAGGAACAGGGGCTGGCAGATGCATCCCTACTTAAAAAAGTGGGTTTT
GAAGTTGAAAAGAAAGGCGAAAAGCTGATCCTGAAATCTACTAGAGACCCCTAAGCCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001167621

**Insert Size:** 1236 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**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\\_001167621.1](#)

**RefSeq Size:** 3148 bp

**RefSeq ORF:** 1236 bp

**Locus ID:** 25814

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

**Cytogenetics:** 22q13.31

**MW:** 46.3 kDa

**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 (2) lacks an in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.