

Product datasheet for RC230029

ATXN10 (NM_001167621) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ATXN10
Synonyms:	E46L; HUMEPP; SCA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC230029 representing NM_001167621
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGCGCCAGGCCCGCGCTGCCAGGCTGTCGGGCGTCATGGTGCCGGCGCCCATCCAAGACCTGG
AGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGAGCAGCGGAACCGGAACCTGGATACGATTGGTGTTC
TGTTGATTTGATTCTTCTGTTTCGTGAAGTGGAGTGAACAGGAATCTCTGTTGACAGCTTTTCGCTGT
GGCTGCAGTTTTATAGCAACATTGCCTCACGGAATGAAGATCCAGTCTATTGTTGGGTGCATGCTT
TCCCAGAACTGTTTTGTCTTAAATCATCCGGACAAAAAATTGTTGCCTACTCTCAATGATTTT
GTTTACATCCCTTAATCATGAAAGAATGAAAGAACTGGAGGAGAACCTCAATATTGCAATTGATGCATA
GATGCTTACCAAAACATCCTGAATCAGAATGGCGTCTTATTATTACAGACCTCTTCTGAAAGCC
CGGAATTGGTACAAGCCATGTTCCCAAATGAACAATCAAGAAAGAGTTACACTGTTAGACCTTATGAT
AGCCAAGATAACGAGTGATGAGCCACTCACCAAGGATGACATCCCTGTGTTTTGCGGCATGCTGAGTTG
ATTGCAAGCACCTTTGTGGATCAGTGCAAGACTGTGCTCAAGCTGGCCTCTGAGGAGCCTCTGATGATG
AGGAGGCACTGGCTACAATTAGGCTTCTCGACGTCTGCGAAATGACTGTGAATACTGAGCTGCTCGG
CTATCTGCAGGTTTTCCCTGGCTTGTGGAAGAGTGATTGATCTTTGCGGGTGATTGATGAGCTGGA
AAAGAAACCACAAACATCTTCAGTAATTGGTTGCGTGAGAGCAGAAGGTGACATCTCCAATGTGCCCA
ATGGGTTTAAGTCTCATCTCATTCTGCTGATTGAAATCTGTGTTACAAGAATAAAGATAACCAAGACAA
GGTAAATGAGCTGGATGGTATCCCGTTGATCCTGGACAACGCAACATCAGTGACAGTAACCCCTTTCTG
ACCCAGTGGGTGATATATGCCATCCGAAACCTTACCGAAGACAACGCCAAACCAAGATTTGATTGCAA
AGATGGAGGAACAGGGGCTGGCAGATGCATCCCTACTTAAAAAAGTGGGTTTTGAAGTTGAAAAGAAAG
CGAAAAGCTGATCCTGAAATCTACTAGAGACACCCCTAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC230029 representing NM_001167621

Red=Cloning site Green=Tags(s)

MAAPRPPPARLSGVMVPAPIQDLEALRALTALFKEQRNRNLDITGVAVDLILLFRELVEQESLLTAFC
GLQFLGNIASRNEDSQSIVVWHAFPELFLSCLNHPDKKIVAYSSMILFTSLNHERMKEEENLNIAIDVI
DAYQKHPESEWPFLIITDLFLKSPVLQAMFPLNNQERVTLDDLMIKITSDEPLTKDDIPVFLRHAEL
IASTFVDQCKTVLKLASEPPDDEEALATIRLLDVLCEMTVNTTELLGYLQVFPGLLERVIDLLRVIHVAG
KETTNIFSNCGCVRAEGDISNVANGFKSHLIRLIGNLCYKNKDNQDKVNELDGIPLILDNCNISDSNPFL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

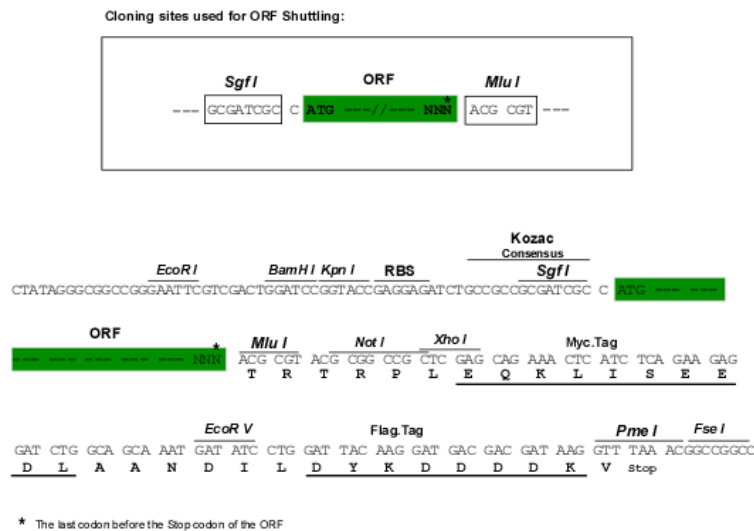
Chromatograms:

https://cdn.origene.com/chromatograms/mk8037_a10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001167621

ORF Size:

1233 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001167621.1](#), [NP_001161093.1](#)

RefSeq ORF: 1236 bp

Locus ID: 25814

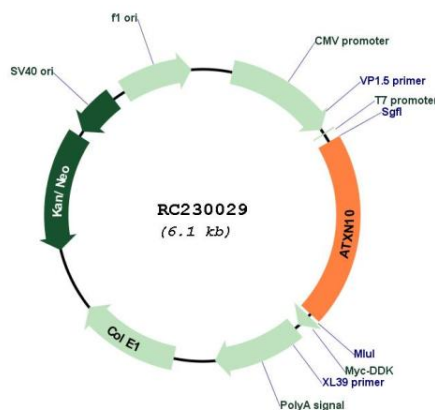
UniProt ID: [Q9UBB4](#)

Cytogenetics: 22q13.31

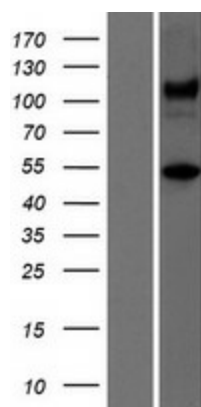
MW: 46.7 kDa

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]

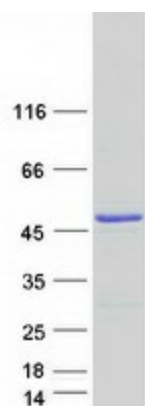
Product images:



Circular map for RC230029



Western blot validation of overexpression lysate (Cat# [LY433029]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230029 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATXN10 protein (Cat# [TP330029]). The protein was produced from HEK293T cells transfected with ATXN10 cDNA clone (Cat# RC230029) using MegaTran 2.0 (Cat# [TT210002]).