

Product datasheet for **RG230029**

ATXN10 (NM_001167621) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATXN10 (NM_001167621) 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)
ORF Nucleotide Sequence: >RG230029 representing NM_001167621
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCCAGGCCCGCCTGCCAGGCTGTCGGCGTCATGGTGCCGGCGCCATCCAAGACCTGG
 AGGCCCTGCGCGCTCACGGCGCTCTTCAAAGAGCAGCGGAACCGAACTTGGATACGATTGGTGTTC
 TGTTGATTTGATCTTCTGTTTCGTGAAGTGGAGTGGAAACAGGAATCTCTGTTGACAGCTTTTCGCTGT
 GGCCTGCAGTTTTAGGCAACATTGCCTCACGGAATGAAGATCCAGTCTATTGTTGGTGCATGCTT
 TCCAGAAGTGTCTTGTCTTAAATCATCCGGACAAAAAATTGTTGCCTACTCTCAATGATTTT
 GTTTACATCCCTAATCATGAAAGAATGAAAGAAGTGGAGGAGAACCTCAATATTGCAATTGATGTCATA
 GATGCTTACAAAAACATCCTGAATCAGAAATGGCCGTTCTTGATTATTACAGACCTTTTCTGAAAAGCC
 CGGAATTGGTACAAGCCATGTTTCCAAACTGAACAATCAAGAAAGAGTTACTGTTAGACCTTATGAT
 AGCCAAGATAACGAGTGATGAGCCACTACCAAGGATGACATCCCTGTGTTTTGCGGCATGCTGAGTTG
 ATTGCAAGCACCTTTGTGGATCAGTGAAGACTGTGCTCAAGCTGGCCTCTGAGGAGCCTCTGATGATG
 AGGAGGCACTGGCTACAATTAGGCTTCTCGACGTCCTGTGCGAAATGACTGTGAATACTGAGCTGCTCGG
 CTATCTGCAGTTTTCCCTGGCTTGCTGGAAGAGTATTGATCTTTGCGGGTGATTGATGATGCTGGA
 AAAGAAACCACAACATCTTCAGTAATTGTGGTTCGCTGAGAGCAGAAGGTGACATCTCCAATGTGGCCA
 ATGGGTTTAAGTCTCATCTCATTCTGCTGATTGGAAATCTGTGTTACAAGAATAAAGATAACCAAGACAA
 GGTAAATGAGCTGGATGTTATCCGTTGATCCTGGACAAGTCAACATCAGTGACAGTAACCCCTTTCTG
 ACCCAGTGGTGATATATGCCATCCGAAACCTTACCGAAGACAACAGCCAAAACCAAGATTTGATTGCAA
 AGATGGAGGAACAGGGCTGGCAGATGCATCCCTACTTAAAAAAGTGGGTTTTGAAGTTGAAAAGAAAGG
 CGAAAAGCTGATCCTGAAATCTACTAGAGACACCCCTAAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230029 representing NM_001167621
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MAAPRPPPARLSGVMVPAPIQDLEALRALTALFKEQRNRNLDITIGVAVDLILLFRELVEQESLLTAFRC
 GLQFLGNIASRNEDSQSIVVWHAFPELFLSCLNHPDKIVAYSSMILFTSLNHERMKELEENLNIAIDVI
 DAYQKHPESEWPFLIITDLFLKSPPELVQAMFPKLNQERVTLDDLMIAKITSDEPLTKDDIPVFLRHAEL
 IASTFVDQCKTVLKLASEEPPDDEEALATIRLLDVLCEMTVNTTELLGYLQVFPGLLERVIDLLRVIHVAG
 KETTNIFSNCGCVRAEGDISNVANGFKSHLIRLIGNLCYKNKDNQDKVNELDGIPLIILDNCNISDSNPFL
 TQWVIYAIRNLTEDNSQNQDLIAKMEEQGLADASLLKKVGFVEKKGEKLIKSTRDTPPK

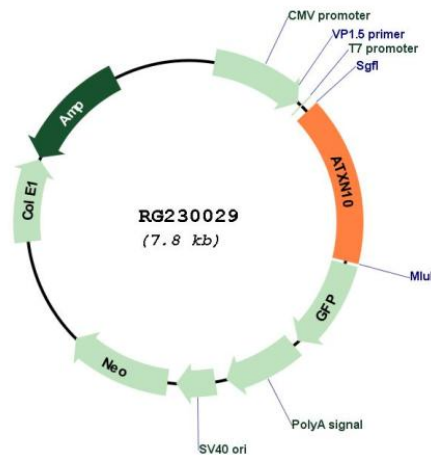
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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 , NP_001161093.1
RefSeq Size:	3148 bp
RefSeq ORF:	1236 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]