

Product datasheet for **MR207617**

Atxn10 (NM_016843) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atxn10 (NM_016843) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atxn10
Synonyms:	A1325283; C77170; E46; Sca10; TEG-169; Tex169
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207617 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCAGGATGCCACCCTCCGGCTGTGGGCATCATGGTGCCCGCACCCATCCAGGACCTGG
 AGGCCTTGC GCGCTCACGGCGCTCTTCAAGGAGCAGCGTAACCGGAAACAGCACCCAGAACGATCTT
 CCAGAGAGTCTGGATATCTTAAAGAAGTCTACTCATGCTGTTGAGCTGGCTGCAGGGATCCCTCCAA
 GTGGAACATCTGGCTTCCAGTCTGCAGTAATCACTGAATGCTTCAGATGTCTTCGGAATGCTTGTATAG
 AGTGTCTGTGAATCAGAATCCATCAGGAACCTGGATACGATCGGAGTTGCTGTTGATTTGGTCTTCT
 CTTTCGTAACCTCGGGTGAACAAGACTCCTTGTGACAGCTTTTCGATGTGGCCTGCAGTTTTAGGC
 AACGTTGCCTCACGAAATGAAGAATCCAGTCCATTGTTGGGTCCAGCCTTCCAGAACTCTTCATGT
 CTTGCTGAACCATCCAGACAAAAGATTGTTGCCTACTGTTCCATGATTCTGTTACATCTCTTAATGC
 TGAAGGATGAAAGACCTGGAAGAGAACCTCAATATTGCAATTACGTCATAGAAGCTCACAAAAGCAC
 CCGGCGTCAGAGTGGCCGTTCTTGATTATTTACAGACCCTTTCTGAAAAGCCCGAACTGGTGAAGCTA
 TGTATGGCAAACCTCAGCAACCAGGAAAGGATCACACTGTTAGACATAGTGATAGCCAAGCTAGTGGGTGA
 GGAGCAGCTGACAAAGGATGACATCTCTATCTTTGTGCGCCATGCCGAGTTGATTGCAAACCTCATTTATG
 GATCAGTGCAGGAACGTGCTGAAGTTGACCTCAGAGCCTCACACCGAGGATAAGGAAGCCCTGGTTACGA
 TTCGGCTCCTGGATGTCTTGTGTGAAATGACGTCCAACACTGAGCTTCTCGGCTACCTGCAGTTTTCCC
 TGGCCTGATGGAACGCGTGATTGATGTTTTACGAGTGATTCATGAAGTTGGAAAAGAAAGCACGAACATC
 TTCAGTCCCTCAGACTCTCTAAAAGCAGAGGGTGACATCGAACACATGACTGAAGGCTTTAAGTCTCATC
 TCATCCTCTGATTGGAATCTGTGCTACAAGAATAAAGAAAACCAAGCAAAAGTGAATGAGCTGATGG
 CATTCCCTGATCCTGGACAGCAGCAACATCGATGACAACAACCCCTTTATGATGCAAGTGGGTGGTGTAT
 GCTGTGCGAAATCTCACTGAAGACAACGCCAAAACCAAGATGTCATTGCCAAGATGGAGGAGCAGGGCT
 TGGCAGACGCATCCCTACTGAAGAAAATGGGCTTTGAAATTGAAAAGAGTGGGGATAAAGTATTCTGAA
 GTCTAATAATGACATCCCCCGCCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

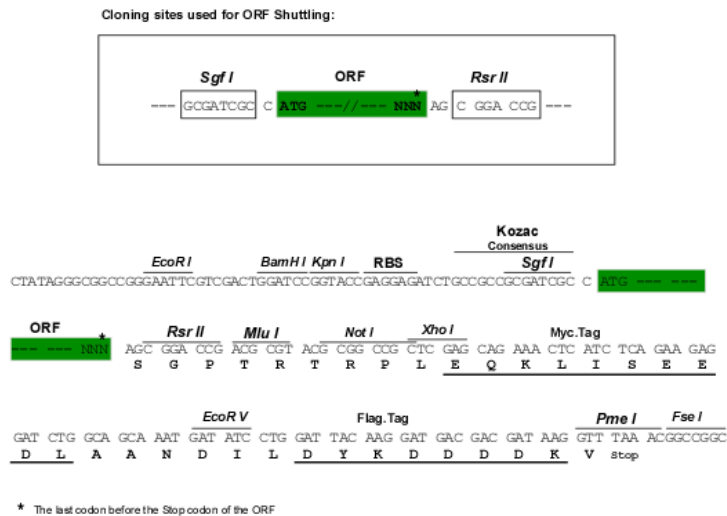
>MR207617 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPRMPPSRLSGIMVPAPIQDLEALRALTALFKEQRNRETAPRTIFQRLVDILKKSTHVELACRDPSSQ
 VEHLASSLQLITECFRCLRNACIECSVNQNSIRNLDTIGVAVDLVLLFREL RVEQDSSLTAFRCGLQFLG
 NVASRNEESQSIWVHAFPELFMSCLNHPDKKIVAYCSMILFTSLNAERMKDLEENLNIAINVIEAHQKH
 PASEWPFLIISDHFLKSPELVEAMYGKLSNQRITLLDIVIAKLVGEEQLTKDDISIFVRHAELIANSFM
 DQCRNVLKL TSEPHTEDEALVTIRLLDVLCEMTSNTPELLGYLQVFPGLMERSVIDVLRVIHEVGKSTNI
 FSPSDSLKAEGDIEHMTGFKSHLIRLIGNLCYKNKENQDKVNELDGIPLILDSSNIDNNPFMMQVVVY
 AVRNLTEDNSQNQDVIAMEEQGLADASLLKKMGFEIEKSGDKLILKSNNIPPP

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_016843

ORF Size: 1428 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_016843.4](#)

RefSeq Size: 2425 bp

RefSeq ORF: 1428 bp

Locus ID: 54138

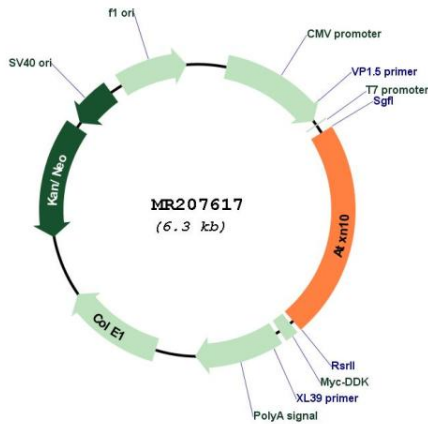
UniProt ID: [P28658](#)

Cytogenetics: 15 E2

MW: 53.7 kDa

Gene Summary: Necessary for the survival of cerebellar neurons. Induces neuritogenesis by activating the Ras-MAP kinase pathway. May play a role in the maintenance of a critical intracellular glycosylation level and homeostasis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207617