

Product datasheet for **RR210477**

Atxn10 (NM_133313) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atxn10 (NM_133313) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atxn10
Synonyms:	Sca10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR210477 representing NM_133313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCAGGATGCCACCCTCCGGCTGTCGGGCATCATGGTGCCAGCACCTATCCAGGACCTGG
 AGGCCCTGCGCGCGCTCACGGCGCTCTTCAAGGAGCAGCGTAACCGGAAACAGCACCCAGAACGATCTT
 CCAGAGAGTCCTGGATATCTTAAAGAAATCCACTCAGGCTGTTGAGCTGGCCTGCAGAGATCCCTCCAA
 GTGGAGACCTGGCTTCCAGTCTTCAGCTGATCACCGAGTGCTTCAGATGCCTTCGTAATGCTTGTATAG
 AGTGTCTGTGAACCAGAATTCATCAGGAACCTGGATACCATTGGAGTTGCCGTTGATTTGGTTCTTCT
 CTTTCGTAACCTCGGGTGAACAAGACTCTTTGTTGACAGCTTCCGCTGTGGCCTGCAGTTTTAGGC
 AACGTTGCCTCACGGAATGAAGATCCAGTCCATTGTTGGGTCCAGCCTCCAGAACTCTTCATGT
 CTTGCTAAATCATCCAGACAAAAGATTGTTGCCTACTGTTCCATGATTCTGTTACATCTCTTAATTC
 TGAAAGGATGAAGGACCTGGAAGAGAACCTCAATATTGCAATTAACGTATAGAAGCTCACCAAAAGCAC
 CCAGAGTCAGAGTGGCCGTTCTTGATCATTACAGACCCTTTCTGAAAAGCCCGAATTGGTGGAAAGCTA
 TGTATGGCAAACCTCAGCAATCAGGAAAGGGTCACACTGTTAGACATCATGATAGCCAAGATCGTGGGTGA
 CGAGCAGTTGACAAAGGATGACATCTCTATATTTTTGCGCCATGCTGAGTTGATTGCAAACCTCATTCTG
 GATCAGTGTGGAAATGTGCTGAAGTTGACCTCAGAACCTCAGACGGAGGACAAGGAAGCACTGGTTACGA
 TTCGGCTCCTGGATGTCTGTGTGAAATGACGTCCAACACTGAGCTGCTCGGCTACCTGCAGTTTTTCC
 TGGCCTGATGGAACGCGTGATTGATGTTTTACGAGTGATTCATTAGTTGGAAAAGATAGCACGAACATC
 TTCAGTCCCTCCGACTCTCTAAAAGCAGAGGGTGATATCGAACACATGACTGAAGGGTTAAGTCTCACC
 TCATCCGCTGATTGAAATCTGTGCTACAAGAATAAAGAAAACCAAGCAAAGTGAATGAGCTGAGGATGG
 CATTCCCTGATCCTGGACAGCAGCAACATCGATGACAACAACCCCTTTATGATGCAGTGGGTGGTGTAT
 GCCGTGCGAAATCTCACTGAAGACAACGCCAAAACCAAGATTTATTGCAAGATGGAGGAGCAGGGGT
 TGGCAGATGCGTCCCTACTGAAGAAGATGGGCTTTGAGGTTGAGAAGAGTGGGGACAAACTGATTCTGAA
 GTCCAATAATGACATCCCCCACCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210477 representing NM_133313
 Red=Cloning site Green=Tags(s)

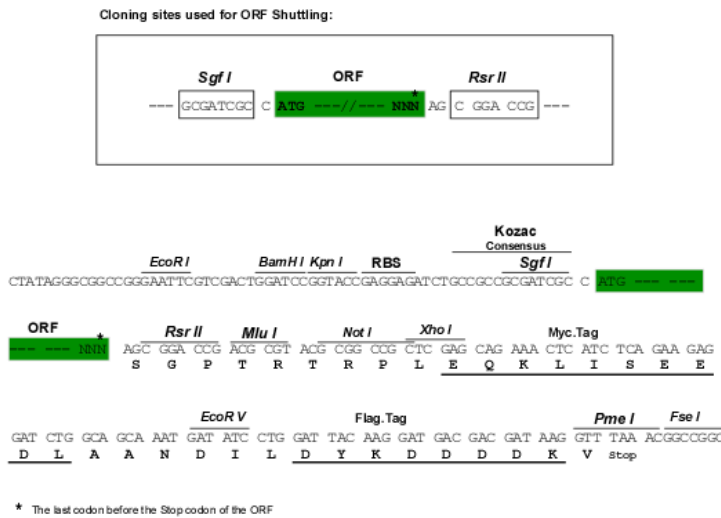
MAAPRMPPSRLSGIMVPAIQDLEALRALTALFKEQRNRETAPRTIFQRVLDILKSTQAVELACRDPSQ
 VEHLASSLQLITECFRCLRNACIECSVNQNSIRNLDTIGVAVDLVLLFREL RVEQDSSLTAFRCGLQFLG
 NVASRNEDSQSIVVWHAFPELFMSCLNHPDKIVAYCSMILFTSLNSERMKDLEENLNIAINVIEAHQKH
 PESEWPFLIITDHF LKSP ELVEAMYGKLSNQERVTL LDIMIAKIVGDEQLTKDDISIFLRHAEL IANSFV
 DQCRNV LKLTSE PQTEDKEALVTIRLLDVLCEMTSNT ELLGYLQVFPGLMERVIDVLRVIH SVGKDSTNI
 FSPSDSLKAEGDIEHMT EGFKSHLIRLIGNLCYKNKENQDKVNE LDGIPLILDSSNIDNPNPFMMQWVVVY
 AVRNLTEDNSQNQDFIAKMEEQGLADASLLKMGFEVEKSGDKLILKSNNDIPPP

SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

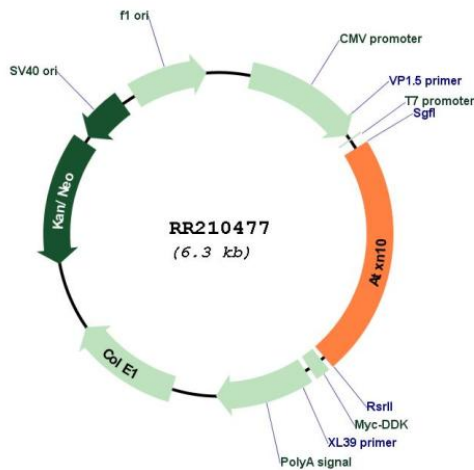
Restriction Sites:

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_133313

ORF Size: 1425 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_133313.2](#), [NP_579847.1](#)

RefSeq Size: 1841 bp

RefSeq ORF: 1428 bp

Locus ID: 170821

UniProt ID: [Q9ER24](#)

Cytogenetics: 7q34

MW: 53.7 kDa

Gene Summary: human homolog is a region of a chromosome highly linked to autosomal dominant cerebellar ataxias [RGD, Feb 2006]