

## Product datasheet for **RR203715**

### **Atxn1 (NM\_012726) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atxn1 (NM_012726) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atxn1
Synonyms:	Sca1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR203715 representing NM\_012726  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATCTAACCAAGAGCGGAGCAATGAATGCCTGCCTCCCAAGAAACGTGAGATCCCCGCCACCAGTC  
 GGCCCTCCGAGGAGAAGGCCACTGCTCTGCCACGCAACAACACTGCGTGGAGGGTGTGGCATGGCTCCC  
 CAGCACCCCTGGCAGCCCGGCCACGGGGTGGCGGCACGGGCCAGCAGGGACTTCCGGGGAACATGGT  
 TTACAAGGAATGGGTTTACATAAAGCACTGTCCGACGGGTGGATTACTCCCCACCCAGTCCCCCAGGT  
 CGGTCCCCACAGCCAACACGCTGCCACCGTGTACCCTCCTCAGTCAGGGACCCGGTGTCTCTGT  
 GCAGTACGCCACCTATCACATACCTTCCAGTTTCATTGGGTCTCCAGTATAGTGGCCTTACGCGGGC  
 TTTATCCCTTCCAGCTGATCTCCCCACAGGCAACCCAGTCACCAGTGGGTGGCTCGGTGCAGGGG  
 CCACCACTCCATCACAGCGCTCCAGCTGGAGGCATATCCACCCTGCTGGCCAACATGGCAGTCTGAG  
 CCAGGCACCGAGCACAAAGTTGAGCCCCCTCCGACGACACCTCGGCAGGGCTGCGGGATTAGTCAAC  
 CCGGGGTCCCCTCCACCTACCCAGCAGAACCAGTACATTCACATTTCCAGCTCTCCGAGAGCTCCGGGC  
 GGGCAACATCTCCACCCATCCCGGTCCACCTCCATCCCCATCAGACGATGATCCCGCACAGCTCACCCCT  
 GGGCCTTCATCCAGGTGGTCGTGCAATACAGTGACGCCGGAGGCCACTTTGTTCTCGAGAGTCCACC  
 AAAAAAGCAGAAAGCAGCAGGTTGCAGCAGGCTATGCAGGCCAAGGAGTCTCAATGGGGAGATGGAGA  
 AAAGCCGAGGATGGGGCGTCATCTTCTGTGGAGCTGAGCCTGGGGAAGACGAGCAGCAAGTCACTGCC  
 TCACCCCTATGAGTCCAGGCATGTGGTGGTCCACCCGAGCCAGCAGACTACAGCAGTGTGATACCTCC  
 GGGTCCGTGGATCTGTGATGGTCTGCCAACAGCAGCACACCTCAGCCGACCTGGAGACACAGCAGG  
 CCACACATCGAGAGGCCCTCCCCATCCACCCTCAATGACAAGAGCGGTTTGCACCTAGGGAAGCCCGCCA  
 CAGGTCTACGCGCTGTCCCGCACACGGTCATTAGACCACACAGCGCATCAGAGCCTCTCCCGGTG  
 GGCTACAGCCACGGCCTTCTATGCTGGCGCTCAACCTCCTGTATCGGCTATCTGAGTAGCCAGCAGC  
 AAGCAATCACCTATGCTGGTGGTCTGCCCCAGCACCTGGTATCCAGGTACCCAGCCCCTGCTCATCCC  
 AGTGGGCAGCCCTGACATGGACACACCTGGGGCAGCCTCGGCCATAGTGACGTCATCGCCCCAGTTTGT  
 GCAGTACCTCACAGTTTGTACCACCGCCCTGCCAAGAGCGAGAACTCAACCCAGAGGCTCTGGTCA  
 CCCAGGCAGCCTACCCAGCCATGGTGCAGGCCAGATCCACCTGCCGGTGGTACAGTCCGTGGCATCCCC  
 TGCCGCGCATCACCCAGCTGCCGCCATATTTATGAAAGGCTCCATCATCCAGCTGGCCAACGGGGAG  
 CTGAAGAAGGTAGAGGATCTGAAGACAGAGGATTTTCATCCAGAGTGCAGAGATTAGCAATGACCTCAAGA  
 TCGACTCCAGTACTGTGGAGAGGATCGAGGACAGCCACAGCCCCGGTGTGGCGGTGATACAATTTGCTGT  
 TGGTGAACACCGAGCCAGGTCAGTGTGCAAGTTTTGGTAGAGTATCCTTTTTTTGATTTGGACAGGGC  
 TGGTATCCTGTGTCCCAGCGGACCAGCCAGCTCTTTGATCTGCCGTGTTCCAACTCTCCGTTGGGG  
 ACGTCTGCATCTCGTCCACCTCAAGAACCTGAAGAATGGCTCTGTTAAAAAGGGCCAGCCCGTGGACCC  
 TGCCAGTGCCCTGCTGAAGCACGCAAAGACCGACAGCCTGGCTGGCAGCAGACACAGATACGCCGAGCAG  
 GAAAACGGAATCAACCAGGGGAGCGCCAGGTGCTCTCTGAGAACGGCGAACTGAAGTTTCCAGAAAAA  
 TTGGATTGCCTGCAGCACCTTCTCACAAAAATAGAACCAGCAAGCCACAGCCACGAGGAAGAGGAG  
 GTGGTCCGGCCCGGAGACCCGTAACCTGGAGAAGTCCGAGGACGAGCCACCTTTGACTCTTCCCAAGCCT  
 TCGCTCATTCTCAGGAGTTAAGATCTGCATCGAAGGCCGATCTAACGTGGGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR203715 representing NM\_012726  
 Red=Cloning site Green=Tags(s)

MKSNQERSNECLPPKKREIPATSRPSEEKATALPSDNHCVEGVAVLPSTPGSRGHGGRRHGHPAGTSGEHG  
 LQGMGLHKALSAGLDYSPPSAPRSVPTANTLPTVYPPPPQSGTPVSPVQYAHLSHTFQFIGSSQYSGPYAG  
 FIPSQLISPPGNPVTSAVASAAGATTPSQRSQLEAYSTLLANMGSLSQAPGHKVEPPPQQHLGRAAGLVN  
 PGSPPTQQNQYIHISSSPQSSGRATSPPIPVHLHPHQTMIPHTLTLGPSSQVVVQYSDAGGHFVPREST  
 KKAESSRLQQAMQAKEVLNGEMEKSRRYGASSVELSLGKTSSKSVPHPYESRHVVVHPSPADYSSRDTS  
 GVRGSMVLPNSSTPSADLETQQATHREASPSTLNDKSGLHLGKPGHRSYALSPHTVIQTTHSASEPLPV  
 GLPATAFYAGAQPPIVIGYLSQQQAITYAGGLPQHLVIPGTQPLLIPVGSMDTPGAASAIVTSSPQFA  
 AVPHTFVTTALPKSENFNPEALVTAAYPAMVQAQIHLVQVSVASPAASPTLPPYFMKGSIIQLANGE  
 LKKVEDLKTEDFIQSAEISNDLKIDSSTVERIEDSHSPGVAVIQFVAGEHRAQVSVEVLVEYPPFFVFGQG  
 WSSCCPERTSQLFDLPCSKLSVGDVCISLTLKNLKNKSVKKGQVDPASALLKHAKTDSLGRHRYAEQ  
 ENGINQGSAQVLENGELKFPEKIGLPAAPFLTKIEPSKPTATRRRWSAPETRKLEKSEDEPPLTLPKP  
 SLIPQEVKICIEGRSNVGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_012726

**ORF Size:** 2367 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\\_012726.2](#), [NP\\_036858.1](#)

**RefSeq Size:** 4717 bp

**RefSeq ORF:** 2370 bp

**Locus ID:** 25049

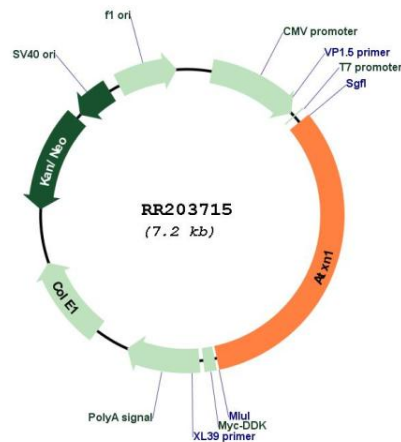
**UniProt ID:** [Q63540](#)

**Cytogenetics:** 17p14

**MW:** 83.5 kDa

**Gene Summary:** human homolog contains an expanded CAG nucleotide repeat region that causes the neurodegenerative disorder spinocerebellar ataxia type 1 (SCA1) [RGD, Feb 2007]

### Product images:



Circular map for RR203715