

## Product datasheet for **RN203715**

### **Atxn1 (NM\_012726) Rat Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >RN203715 representing NM\_012726  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATCTAACCAAGAGCGGAGCAATGAATGCCTGCCTCCCAAGAAACGTGAGATCCCCGCCACCAGTC  
 GGCCCTCCGAGGAGAAGGCCACTGCTCTGCCACGACACAACCACTGCGTGGAGGGTGTGGCATGGCTCCC  
 CAGCACCCCTGGCAGCCCGGCCACGGGGTGGCGGCACGGGCCAGCAGGGACTTCCGGGGAACATGGT  
 TTACAAGGAATGGGTTTACATAAAGCACTGTCCGACGGGTGGATTACTCCCCACCAGTCCCCCAGGT  
 CGGTCCCCACAGCCAACACGCTGCCACCCTGTACCCTCCTCAGTCAGGGACCCGGTGTCTCTGT  
 GCAGTACGCCACCTATCACATACCTTCCAGTTTCATTGGGTCTCCAGTATAGTGGCCTTACGCGGGC  
 TTTATCCCTTCCAGCTGATCTCCCCACCAGGCAACCCAGTCACCAGTGGGTGGCTCGGTGCAGGGG  
 CCACCCTCCATCACAGCGCTCCAGCTGGAGGCATATCCACCCTGCTGGCCAACATGGCAGTCTGAG  
 CCAGGCACCAGGACACAAGGTTGAGCCCCCTCCGACGACACCTCGGCAGGGCTGCGGGATTAGTCAAC  
 CCGGGGTCCCCTCCACCTACCCAGCAGAACCAGTACATTCACATTTCCAGCTCTCCGAGAGCTCCGGGC  
 GGGCAACATCTCCACCCATCCCGGTCCACCTCCATCCCCATCAGACGATGATCCCGCACACGCTCACCC  
 GGGCCTTCATCCAGGTGGTCGTGCAATACAGTGACGCCGAGGCCACTTTGTTCTCGAGAGTCCACC  
 AAAAAAGCAGAAAGCAGCAGGTTGCAGCAGGCTATGCAGGCCAAGGAGTCTCAATGGGGAGATGGAGA  
 AAAGCCGAGGTATGGGGCGTCTTCTGTGGAGCTGAGCCTGGGGAAGACGAGCAGCAAGTCACTGCC  
 TCACCCCTATGAGTCCAGGCATGGTGGTCCACCCGAGCCAGCAGACTACAGCAGTCTGATACCTCC  
 GGGTCCGTGGATCTGTGATGGTCTGCCAACAGCAGCACACCTCAGCCGACCTGGAGACACAGCAGG  
 CCACACATCGAGAGGCCCTCCCCATCCACCCTCAATGACAAGAGCGGTTTGCACCTAGGGAAGCCCGCCA  
 CAGGTCTACGCGCTGTCCCGCACACGGTCAATCAGACCACACAGCGCATCAGAGCCTCTCCCGGTG  
 GGCTACCCAGCCACGGCCTTCTATGCTGGCGCTCAACCTCCTGTATCGGCTATCTGAGTAGCCAGCAGC  
 AAGCAATCACCTATGCTGGTGGTCTGCCCCAGCACCTGGTATCCAGGTACCCAGCCCCTGCTCATCCC  
 AGTGGGCAGCCCCTGACATGGACACACCTGGGGCAGCCTCGGCCATAGTGACGTCATCGCCCCAGTTTGT  
 GCAGTACCTCACAGTTTGTACCACCGCCCTGCCAAGAGCGAGAACTCAACCCAGAGGCTCTGGTCA  
 CCCAGGCAGCCTACCCAGCCATGGTGCAGGCCAGATCCACCTGCCGGTGGTACAGTCCGTGGCATCCCC  
 TGCCGCGGCATCACCCAGCTGCCGCCATATTTATGAAAGGCTCCATCATCCAGCTGGCCAACGGGGAG  
 CTGAAGAAGGTAGAGGATCTGAAGACAGAGGATTTTCATCCAGAGTGCAGAGATTAGCAATGACCTCAAGA  
 TCGACTCCAGTACTGTGGAGAGGATCGAGGACAGCCACAGCCCCGGTGTGGCGGTGATACAATTTGCTGT  
 TGGTGAACACCGAGCCCAGGTCACTGTCGAAGTTTTGGTAGAGTATCCTTTTTTTGATTTGGACAGGGC  
 TGGTATCCTGTGTCCCAGCGGACCAGCCAGCTCTTTGATCTGCCGTGTTCCAACTCTCCGTTGGGG  
 ACGTCTGCATCTCGTCCACCTCAAGAACCTGAAGAATGGCTCTGTTAAAAAGGGCCAGCCCCTGGACCC  
 TGCCAGTGCCTGCTGAAGCACGCAAAGACCGACAGCCTGGTGGCAGCAGACACAGATACGCCGAGCAG  
 GAAAACGGAATCAACCAGGGGAGCGCCAGGTGCTCTCTGAGAACGGCGAACTGAAGTTTCCAGAAAAA  
 TTGGATTGCCTGCAGCACCTTCTCACAAAAATAGAACCAGCAAGCCACAGCCACGAGGAAGAGGAG  
 GTGGTCCGGCCCGGAGACCCGTAACCTGGAGAAGTCCGAGGACGAGCCACCTTTGACTCTTCCCAAGCCT  
 TCGCTCATTCTCAGGAGTTAAGATCTGCATCGAAGGCCGATCTAACGTGGGCAAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_012726  
**Insert Size:** 2370 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012726.2</a> , <a href="#">NP_036858.1</a>
<b>RefSeq Size:</b>	4717 bp
<b>RefSeq ORF:</b>	2370 bp
<b>Locus ID:</b>	25049
<b>UniProt ID:</b>	<a href="#">Q63540</a>
<b>Cytogenetics:</b>	17p14
<b>Gene Summary:</b>	human homolog contains an expanded CAG nucleotide repeat region that causes the neurodegenerative disorder spinocerebellar ataxia type 1 (SCA1) [RGD, Feb 2007]