

# Product datasheet for SC323239

## Ataxin 7 (ATXN7) (NM\_001128149) Human Untagged Clone

### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ataxin 7 (ATXN7) (NM_001128149) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ataxin 7
Synonyms:	ADCAII; OPCA3; SCA7; SGF73
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

#### OriGene Technologies, Inc.

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Fully Sequenced ORF:	>SC323239 representing NM_001128149. Blue=Insert sequence <mark>Red=</mark> Cloning site Green=Tag(s)
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCG <mark>CCGATCGC</mark> C
	ATGGAAGGTAGCAAGACGCCTCTCCAAAGCAGCCCCTTCTGCGCAGGAGCTGAAAGCTCCACTGGAAAGA
	AGACATAGCTCATCCAGCAAGCCGCCTTTGGCCGTTCCTCCCACTTCAGTATTTTCCTTCTTCCCTTCT
	CTGTCCAAAAGCAAAGGAGGCAGTGCAAGTGGAAGCGAACCGTTCTTCCAGTGGAGGTGTTCTTAGCGCA
	TCCTCATCAAGTTCCAAGTTGTTGAAATCACCCAAAGAGAAACTGCAGCTCAGGGGGAACACCAGGCCA
	ATGCATCCCATTCAGCAAAGTAGAGTTCCCCATGGTAGAATCATGACACCCTCTGTGAAAGTGGAAAAG
	ATTCATCCGAAAATGGATGGCACACTACTGAAATCTGCGGTGGGGCCAACCTGTCCTGCTACTGTGAGT
	TCCTTAGTCAAGCCTGGCCTTAACTGCCCCTCAATACCAAAGCCAACCTTGCCTTCACCTGGACAGATT
	CTGAATGGCAAAGGGCTTCCTGCACCGCCCACTCTGGAAAAGAAACCTGAAGACAATTCCAATAATAGG
	AAATTTTTAAATAAGAGATTATCAGAAAGAGAGTTTGATCCTGACATCCACTGTGGGGTTATTGATCTC
	GACACCAAGAAGCCCTGCACCCGGTCTTTGACATGCAAGACACATTCCTTAACCCAGCGCAGGGCTGTC
	CAGGGTAGAAGAAAACGATTTGATGTGTTATTAGCCGAGCACAAAAACAAAACCAGGGAAAAGGAATTG
	ATTCGCCATCCGGACTCTCAGCAACCACCGCAGCCTCTCAGGGACCCGCATCCCGCCCCTCCTAGAACG
	TCACAGGAGCCGCACCAAAACCCTCACGGAGTGATTCCTTCC
	CCTAAACCTCACACCCCCAGTCTTCCAAGGCCTCCAGGCTGCCCTGCTCAGCAAGGTGGGAGTGCCCCC
	ATTGACCCTCCTCCAGTCCATGAATCTCCACACCCCTCCCCTGCCTG
	TCCAGTGAGGAGGGCGAAGGCGATGACAAAGAAGAGTCTGTTGAAAAACTGGACTGTCATTATTCAGGT CATCATCCTCAGCCAGCATCTTTTTGCACATTTGGGAGCCGGCAGATAGGAAGAGGGCTATTACGTGTTT
	GACTCCAGGTGGAATCGACTTCGCTGCGCCCCTCAACCTCATGGTGGAGAAGAAGGCTATTACGTGTTT
	TGGAAGAAAATCCCACCAGTGCCCAGTACCACCTCACCCATCTCCACACGTATTCCTCACCGGACAAAC
	TCTGTGCCGACATCACAATGTGGAGTCAGCTATCTGGCAGCAGCCACCGTCTCTACATCCCCAGTCCTG
	CTCTCATCTACCTGCATCTCCCCCAAATAGCAAATCGGTACCAGCTCATGGAACCACACTAAATGCACAG
	CCTGCTGCTTCAGGGGCGATGGATCCTGTGTGCAGTATGCAATCCAGACAAGTGTCCTCTTCATCCTCA
	TCCCCTTCCACGCCCTCTGGCCTTTCCTCGGTTCCTTCCT
	AAATCCAGCAAATCTTTGAGGCCCAAGGAGTCTTCTGGTAACAGCACTAACTGTCAAAATGCCAGTAGC
	AGTACCAGTGGCGGCTCAGGAAAGAAACGCAAAAACAGTTCCCCACTGTTGGTTCACTCTTCCTCCTCC
	TCTTCCTCCTCCTCTTCTTCTCATTCCATGGAGTCTTTTAGGAAAAACTGTGTGGCTCACTCTGGG
	CCTCCCTACCCCTCAACGGTAACATCTTCCCATAGCATCGGCCTCAACTGTGTGACGAATAAAGCAAAT
	GCGGTGAACGTCCGGCATGACCAGTCAGGGAGGGGCCCCCCCACCGGGAGCCCTGCTGAATCCATCAAG
	AGGATGAGTGTGATGGTGAACAGCAGTGATTCTACTCTTTCTCTTGGGCCATTCATT
	GAACTGCCTGTCAACTCCCACGGCAGTTTTTCCCACTCACACACCTCCTCTAGACAAACTCATAGGAAAG
	AAAAGAAAGTGCTCACCCAGCTCGAGCAGCATCAACAACAGCAGCAGCAAACCCACAAAGGTTGCCAAA GTGCCAGCCGTGAACAATGTCCACATGAAACACACAGGCACCATCCCAGGGGCACAAGGACTGATGAAC
	AGTTCCCTCCTTCATCAGCCAAAGGCACCATCCAGGGCACCAGGGCACAAGGACTGATGAAC
	ACGCGTACGCGGCCGCTCGAGCAGAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
	TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
<b>Restriction Sites:</b>	Sgfl-Mlul
ACCN:	NM_001128149
Insert Size:	2244 bp
OTI Disclaimer:	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

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RNA splicing form or single nucleotide polymorphism (SNP).

<b>CRIGENE</b> Ataxin 7 (ATXN7) (NM_001128149) Human Untagged Clone – SC323239	
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001128149.2</u>
RefSeq Size:	6422 bp
RefSeq ORF:	2244 bp
Locus ID:	6314
UniProt ID:	<u>015265</u>
Cytogenetics:	3p14.1
MW:	79.5 kDa

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### CRIGENE Ataxin 7 (ATXN7) (NM\_001128149) Human Untagged Clone – SC323239

The autosomal dominant cerebellar ataxias (ADCA) are a heterogeneous group of Gene Summary: neurodegenerative disorders characterized by progressive degeneration of the cerebellum, brain stem and spinal cord. Clinically, ADCA has been divided into three groups: ADCA types I-III. ADCAI is genetically heterogeneous, with five genetic loci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6, being assigned to five different chromosomes. ADCAII, which always presents with retinal degeneration (SCA7), and ADCAIII often referred to as the 'pure' cerebellar syndrome (SCA5), are most likely homogeneous disorders. Several SCA genes have been cloned and shown to contain CAG repeats in their coding regions. ADCA is caused by the expansion of the CAG repeats, producing an elongated polyglutamine tract in the corresponding protein. The expanded repeats are variable in size and unstable, usually increasing in size when transmitted to successive generations. This locus has been mapped to chromosome 3, and it has been determined that the diseased allele associated with spinocerebellar ataxia-7 contains 37-306 CAG repeats (near the N-terminus), compared to 4-35 in the normal allele. The encoded protein is a component of the SPT3/TAF9/GCN5 acetyltransferase (STAGA) and TBP-free TAF-containing (TFTC) chromatin remodeling complexes, and it thus plays a role in transcriptional regulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016] Transcript Variant: This variant (SCA7c) differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant SCA7a. The encoded isoform (c) has a distinct N-

terminus and is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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