

Product datasheet for **MC228941**

Atxn1 (NM_001199304) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atxn1 (NM_001199304) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atxn1
Synonyms:	2900016G23Rik; Atx1; C85907; ENSMUSG00000074917; Gm10786; Sca1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228941 representing NM_001199304
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATCCAACCAAGAGCGGAGCAACGAATGCCTGCCTCCCAAGAAACGTGAGATCCCCGCCACCAGCC
 GGCCCTCGGAGGAGAAGGCCACTGCTCTGCCACGACAAACCCTGCGTGGAGGGTGGCTGGCTCCC
 CAGCACCCCTGGCATCCGCGCCATGGGGTGGCGGCACGGGTACGAGGGACTTCCGGGGAGCATGGT
 TTACAAGGAATGGGTTTACATAAAGCACTGTCCGACGGGTGGATTACTCCCCACCCAGTGCCCCAGGT
 CAGTCCCCACAGCCAACACGCTGCCACCGTGTACCTCCTCCTCAGTCAGGGACCCCGTGTCTCTGT
 GCAGTACGCCACCTTTCGCATACCTTCCAGTTTATTGGGTCCTCCCAATACAGTGGGCCTTACGCGGGC
 TTTATCCCTTCCAGCTGATCTCCCATCAGGCAACCCGGTACCAGTGCAGTAGCCTCAGTGCAGGGG
 CCACCCTCCATCACAGCGCTCCAGCTGGAGGCTTATCCACCCTGCTGGCCAACATGGCAGTCTGAG
 CCAGGCACCAGGACATAAGGTTGAGCCCCCTCCGACGACACCTCAGCAGGGCTGCAGGATTAGTCAAC
 CCGGGGTCCCCTCCTCCACCACCCAGCAGAACCAGTACATCCATATTTCCAGCTCTCCACAGAGCTCCG
 GCGGGGCGACATCTCCCCACCCATCCCGGTCCACCTCCATCCCCATCAGACGATGATCCCGCACACT
 CACCCTGGGGCCTTATCCCAGGTGGTGTGCAATATAGTGTGATGCCGGAGGCCACTTTGTTCTCGAGAG
 TCCACCAAAAAAGCCGAGAGCAGCAGGTTGACGAGGCTATGCAAGCCAAGGAAGTCTGAATGGGGAGA
 TGGAGAAAAGCCGGAGGTATGGGCATCATCTTCTGTGGAGTGCAGCCTAGGCAAGGCAAGCAGTAAATC
 AGTGCCTCATCCCTATGAGTCCAGGCATGTGGTGGTCCACCAAGCCAGCAGACTACAGCAGTGTGAT
 ACCTCCGGGTCCGTGGATCTGTGATGGTCTGCCTAATAGCAGCACACCCTCAGCCGACCTGGAGGCC
 AGCAGCACAGCATCGAGAGCCCTCCCCATCCACCTCAATGACAAGAGCGGCCCTGCACCTAGGGAAGCC
 GGGCCACAGGTCTTATGCGCTGTCCCCCACAGGTATTAGACACACACAGTGCATCAGAGCCTCTC
 CCGGTGGGCTACCAGCCACGGCCTTCTACGCTGGCACTCAACCTCCTGTGATCGGCTACCTGAGCGGCC
 AGCAGCAAGCAATCACCTATGCTGGTGGTCTGCCGACGACCTGGTGTATCCAGGTAACCAGCCCTGCT
 CATCCCGTGGGAGCCCTGACATGGACACGCCTGGGACGCTCGGCCATCGTGACGTCATCACCCAG
 TTTGCTGCAGTACCTCACAGTTTGTACCACCGCCCTGCCAAGAGCGAGAACTCAACCCAGAGGCTC
 TGGTACCAGGCTGCCTACCCAGCATGGTGCAGGCCAGATCCACCTGCCGGTGGTGCAGTCCGTGGC
 GTCCCCACCACGGCTCTCCACGCTGCCGCATATTTTCATGAAAGGCTCCATCATCCAGTGGCCAAC
 GGGGAGCTGAAGAAGGTGGAGGACCTGAAGACGGAGGATTTTCATCCAGAGTGCAGAGATTAGCAATGACC
 TCAAGATCGACTCCAGTACTGTGAGAGAATCGAGGAGAGCCACAGCCCGGGGTGGCCGTGATACAGTT
 TGCTGTTGGTGAACACCGAGCCAGGTCAGTGTGGAAGTCTTGGTGAAGTATCCTTTTTTTGATTTGGA
 CAGGGCTGGTATCCTGTCTGCTGAGCGGACCAGCCAGCTCTTTGATCTGCCGTGTTCCAACTCTCTG
 TTGGGGAGCTCTGCATCTCGTCCACCTCAAGAACCTGAAGAATGGCTCTGTTAAAAAGGGCCAGCCTGT
 GGACCCTGCCAGCGTCTGCTGAAGCAGGCAAAGACCGACAGCCTGGCTGGCAGCAGACACAGATACGCG
 GAGCAGGAAAACGGAATCAACCAGGGAAGCGCCAGGTGCTCTGAGAATGGCGAAGTGAAGTTTCCAG
 AAAAAATAGGATTGCCTGCAGCACCTTCTCAGCAAAAATAGAACCAGGCAAACCCACAGCCACGAGGAA
 GAGGAGGTGGTCCGCGCCGGAGACCCGTAACCTGGAGAAGTCCGAGGACGAGCCACCTTTGACTCTTCCC
 AAGCCTTCGCTCATTCTCAGGAGGTTAAGATCTGCATCGAAGGCCGATCTAACGTGGCAAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001199304
Insert Size: 2376 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 RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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 style="list-style-type: none"> 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:	<u>NM_001199304.1</u> , <u>NP_001186233.1</u>
RefSeq Size:	10474 bp
RefSeq ORF:	2376 bp
Locus ID:	20238
UniProt ID:	<u>P54254</u>
Cytogenetics:	13 21.98 cM
Gene Summary:	<p>Chromatin-binding factor that repress Notch signaling in the absence of Notch intracellular domain by acting as a CBF1 corepressor. Binds to the HEY promoter and might assist, along with NCOR2, RBPJ-mediated repression (By similarity). May be involved in RNA metabolism (By similarity). In concert with CIC and ATXN1L, involved in brain development (PubMed:28288114).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 3 both encode the same isoform (b). 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.</p>