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Product datasheet for MC202345

Atxn1 (NM_009124) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atxn1 (NM_009124) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atxn1
Synonyms:	2900016G23Rik; Atx1; C85907; ENSMUSG00000074917; Gm10786; Sca1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC058178 sequence for NM_009124

GCCGTACAGGACCTGTTTCACTGCAGGGGGATCCAAAACAAGCCCTGTGGAGCCGCAGCTAGAGCTACAG
CAGCCGCAGGACACTGTGTCTCTCCCTCTGTTACCCCTTCCCCACGCAACCCCAGATCCATTTACACTTT
ACAAAGTATCCTGCACCGTGCAACAAGTACGAGGGCGGTCGCTTCAAGCTGCAGATCTGTCTGTCATCCT
TATCCAACAGTCTCTTCCTCCACTCCCTCCACAGGGAAGGGCGTCACCTGTCAGATTGCAGCATCCTGGA
ACAGAATGAAAGGATCTGTGTTGAAACAGCTACAGTAGGGTTACAGTAGACCCTGAGAAAAACAGAGTGG
ACTTCAGCCTGCACGGATGAGCTTGAAGCAGGAATGGTTTGGGGTTCAGGCCTCTTACACTGAATTTCTC
TACTGCCACCCTTTCTACTCAAGCAACATCTTCAGGAAAAGATCTCCCGGGAAGGAAGTGGCTGCTTGTG
GCTTTGCACTGTGATGAAGGCAAATGGTACAGTTTTCCAAAGAAAATAGACCAAAACTTTCTTCTTGAGA
AGAAACAAACCTGCTGTTGGCAGAGGAATCCGGAGCTGCCACTGCCAGCCTAAAGAACCCACGGGGAGAT
GATTCCCCATGAAGGGCCTGGATCCCCTACAGAAATCCAATGTGACTCTCTGTTTATCAGACTAAAACCA
GAGCCGGCCAGCCAGTGAAACAGCCACCGTGGAGGGGGGACGGCGAAAAATGAAATCCAACCAAGAGCGG
AGCAACGAATGCCTGCCTCCCAAGAAACGTGAGATCCCCGCCACCAGCCGGCCCTCGGAGGAGAAGGCCA
CTGCTCTGCCCAGCGACAACCACTGCGTGGAGGGTGTGGCCTGGCTCCCCAGCACCCCTGGCATCCGCGG
CCATGGGGGTGGGCGGCACGGGTCAGCAGGGACTTCCGGGGAGCATGGTTTACAAGGAATGGGTTTACAT
AAAGCACTGTCCGCAGGGCTGGATTACTCCCCACCCAGTGCCCCCAGGTCAGTCCCCACAGCCAACACGC
TGCCCACCGTGTACCCTCCTCCTCAGTCAGGGACCCCGGTGTCTCCTGTGCAGTACGCCCACCTTTCGCA
TACCTTCCAGTTCATTGGGTCCTCCCAATACAGTGGGCCTTACGCGGGCTTTATCCCTTCCCAGCTGATC
TCCCCATCAGGCAACCCGGTCACCAGTGCAGTAGCCTCAGCTGCAGGGGCCACCACTCCATCACAGCGCT
CCCAGCTGGAGGCTTATTCCACCCTGCTGGCCAACATGGGCAGTCTGAGCCAGGCACCAGGACATAAGGT
TGAGCCCCCTCCGCAGCAGCACCTCAGCAGGGCTGCAGGATTAGTCAACCCGGGGTCCCCTCCTCCACCC
ACCCAGCAGAACCAGTACATCCATATTTCCAGCTCTCCACAGAGCTCCGGGCGGGCGACATCTCCCCCAC
CCATCCCGGTCCACCTCCATCCCCATCAGACGATGATCCCGCACACACTCACCCTGGGGCCTTCATCCCA
GGTGGTTGTGCAATATAGTGATGCCGGAGGCCACTTTGTTCCTCGAGAGTCCACCAAAAAAGCCGAGAGC
AGCAGGTTGCAGCAGGCTATGCAAGCCAAGGAAGTCCTGAATGGGGAGATGGAGAAAAGCCGGAGGTATG
GGGCATCATCTTCTGTGGAGCTGAGCCTAGGCAAGGCAAGCAGTAAGTCAGTGCCTCATCCCTATGAGTC
CAGGCATGTGGTGGTCCACCCAAGCCCAGCAGACTACAGCAGTCGTGATACCTCCGGGGTCCGTGGATCT

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GTGATGGTTCTGCCTAATAGCAGCACACCCTCAGCCGACCTGGAGGCCCAGCAGACCACGCATCGAGAGG
CCTCCCCATCCACCCTCAATGACAAGAGCGGCCTGCACCTAGGGAAGCCGGGCCACAGGTCTTATGCGCT
GTCCCCCCACACGGTCATTCAGACCACACACAGTGCATCAGAGCCTCTCCCGGTGGGCCTACCAGCCACG
GCCTTCTACGCTGGCACTCAACCTCCTGTCATCGGCTACCTGAGCGGCCAGCAGCAAGCAATCACCTATG
CTGGTGGTCTGCCGCAGCACCTGGTGATCCCAGGTAACCAGCCCCTGCTCATCCCGGTGGGCAGCCCTGA
CATGGACACGCCTGGGGCAGCCTCGGCCATCGTGACGTCATCACCCCAGTTTGCTGCAGTACCTCACACG
TTTGTCACCACCGCCCTGCCCAAGAGCGAGAACTTCAACCCAGAGGCTCTGGTCACCCAGGCTGCCTACC
CAGCCATGGTGCAGGCCCAGATCCACCTGCCGGTGGTGCAGTCCGTGGCGTCCCCCACCACGGCGTCTCC
CACGCTGCCGCCATATTTCATGAAAGGCTCCATCATCCAGCTGGCCAACGGGGAGCTGAAGAAGGTGGAG
GACCTGAAGACGGAGGATTTCATCCAGAGTGCAGAGATTAGCAATGACCTCAAGATCGACTCCAGTACTG
TGGAGAGAATCGAGGAGAGCCACAGCCCCGGGGTGGCCGTGATACAGTTTGCTGTTGGTGAACACCGAGC
CCAGGTCAGTGTCGAAGTCTTGGTAGAGTATCCTTTTTTTGTATTTGGACAGGGCTGGTCATCCTGCTGT
CCTGAGCGGACCAGCCAGCTCTTTGATCTGCCGTGTTCCAAACTCTCTGTTGGGGACGTCTGCATCTCGC
TCACCCTCAAGAACCTGAAGAATGGCTCTGTTAAAAAGGGCCAGCCTGTGGACCCTGCCAGCGTCCTGCT
GAAGCAGGCAAAGACCGACAGCCTGGCTGGCAGCAGACACAGATACGCGGAGCAGGAAAACGGAATCAAC
CAGGGAAGCGCCCAGGTGCTCTCTGAGAATGGCGAACTGAAGTTTCCAGAAAAAATAGGATTGCCTGCAG
CACCCTTCCTCAGCAAAATAGAACCGAGCAAACCCACAGCCACGAGGAAGAGGAGGTGGTCGGCGCCGGA
GACCCGTAAACTGGAGAAGTCGGAGGACGAGCCACCTTTGACTCTTCCCAAGCCTTCGCTCATTCCTCAG
GAGGTTAAGATCTGCATCGAAGGCCGATCTAACGTGGGCAAGTAGAGACCTTGCGGGCAGCGGAGGCCCG
GGGCCTCCTTTTACTGTCTGTATCCAGATTACTGTACTGTAGGCTAAGTAACACAGTATTTACATGTTAC
ATCCTCTTTAGGTTTGTATTCTAACCTTGTCATTAGAGTCAAACAGGTGTGTCGCAGGAGACTGGTGCGT
TTGCATTGTCTGCAAGGGTCTGTTGAGGAGCTGGTGGGTGGAGGATGGTCAGAACCATGTCCATGGAGCT
CCCGGGCATCCTTAGTGGCCCTGAATGTGGCTTCATCAGCCCCTGCCTTCTCCGGCAGTGTGCAGAGTCG
AGGGGCATCAGTTCCCACTGGTTTCAAGAACAAACACAGTGGGAAGTATCCTGCAAGGGAGTGTCTGGGT
GCGTGTCCCTTGTGAAGGAGTGCGAGTGAGGGTGTCTCTTTCTCTGCCTCTGTCTCCCTCACTTGCTCCC
TCTCAGTGTGGGGTTGGGGGACCTGGGTTTCCCACCTGCAAAGTCATCAGGGAACCCAGCTTCCAGGCAT
TGTAGGGAGACATCAGACAGGCAGATGGGAAACTAGTTTCAAAGAACGTGGTTCTCTCCAACATATTTTA
CAATAAAAAGCAACTTTTAATCAACAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_009124

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).

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: BC058178, AAH58178

RefSeq Size:	3750 bp
RefSeq ORF:	2376 bp
Locus ID:	20238
UniProt ID:	P54254
Cytogenetics:	13 21.98 cM
Gene Summary:	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] Transcript Variant: This variant (2) 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.