

Product datasheet for **MR210675**

Atxn1 (NM_009124) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atxn1 (NM_009124) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atxn1
Synonyms:	2900016G23Rik; Atx1; C85907; ENSMUSG00000074917; Gm10786; Sca1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210675 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATCCAACCAAGAGCGGAGCAACGAATGCCTGCCTCCCAAGAAACGTGAGATCCCCGCCACCAGCC
 GGCCCTCGGAGGAGAAGGCCACTGCTCTGCCACGCAACAACACTGCGTGAGGGGTGGCTGGCTCCC
 CAGCACCCCTGGCATCCGCGCCATGGGGTGGCGGCACGGGTACGAGGGACTTCCGGGGAGCATGGT
 TTACAAGGAATGGGTTTACATAAAGCACTGTCCGACGGGTGGATTACTCCCCACCCAGTGCCCCAGGT
 CAGTCCCCACAGCCAACACGCTGCCACCGTGTACCTCCTCAGTCAGGGACCCCGTGTCTCTGT
 GCAGTACGCCACCTTTCGCATACCTTCCAGTTTATTGGTCTCCCAATACAGTGGGCCTTACGCGGGC
 TTTATCCCTTCCAGCTGATCTCCCATCAGGCAACCCGGTACCAGTGCAGTAGCCTCAGTGCAGGGG
 CCACCACTCCATCACAGCGCTCCAGCTGGAGGCTTATCCACCCTGCTGGCCAACATGGCAGTCTGAG
 CCAGGCACAGGACATAAGGTTGAGCCCCCTCCGACGACACCTCAGCAGGGCTGCAGGATTAGTCAAC
 CCGGGGTCCCCTCCTCCACCCACCCAGCAGAACCAGTACATCCATATTTCCAGCTCTCCACAGAGCTCCG
 GCGGGGCGACATCTCCCCACCCATCCCGGTCCACCTCCATCCCCATCAGACGATGATCCCGCACACACT
 CACCCTGGGGCCTTATCCCAGGTGGTGTGCAATATAGTGATGCCGGAGGCCACTTTGTTCTCGAGAG
 TCCACCAAAAAAGCCGAGAGCAGCAGGTTGACGAGGCTATGCAAGCCAAGGAAGTCTGAATGGGGAGA
 TGGAGAAAAGCCGGAGGTATGGGCATCATCTTCTGTGGAGTGAGCCTAGGCAAGGCAAGCAGTAAATC
 AGTGCCTCATCCCTATGAGTCCAGGCATGTGGTGGTCCACCAAGCCAGCAGACTACAGCAGTCGTGAT
 ACCTCCGGGTCCGTGGATCTGTGATGGTCTGCCTAATAGCAGCACACCCTCAGCCGACCTGGAGGCC
 AGCAGACCAGCATCGAGAGCCCTCCCCATCCACCTCAATGACAAGAGCGGCCCTGCACCTAGGAAAGCC
 GGGCCACAGGTCTTATGCGCTGTCCCCCACACGGTCATTACAGACCACACACAGTGCATCAGAGCCTCTC
 CCGGTGGGCTACCAGCCACGGCCTTCTACGCTGGCACTCAACCTCCTGTGATCGGCTACCTGAGCGGCC
 AGCAGCAAGCAATCACCTATGCTGGTGGTCTGCCGACGACCTGGTATCCCAGGTAACCAGCCCCTGCT
 CATCCCGGTGGGAGCCCTGACATGGACACGCCTGGGCGAGCCTCGGCCATCGTGACGTCATCACCCAG
 TTTGCTGCAGTACCTCACAGTTTGTACCACCGCCCTGCCAAGAGCGAGAACTCAACCAGAGGCTC
 TGGTACCAGGCTGCCTACCCAGCATGGTGCAGGCCAGATCCACCTGCCGGTGGTGCAGTCCGTGGC
 GTCCCCACCACGGCTCTCCACGCTGCCGCATATTTTCATGAAAGGCTCCATCATCCAGCTGGCCAAC
 GGGGAGCTGAAGAAGGTGGAGGACCTGAAGACGGAGGATTTTCATCCAGAGTGCAGAGATTAGCAATGACC
 TCAAGATCGACTCCAGTACTGTGAGAGAATCGAGGAGAGCCACAGCCCCGGGTGGCCGTGATACAGTT
 TGCTGTTGGTGAACCCGAGCCAGGTCAGTGTGGAAGTCTTGGTAGAGTATCCTTTTTTTGATTTGGA
 CAGGGCTGGTATCCTGCTGTCTGAGCGGACCAGCCAGCTCTTTGATCTGCCGTGTTCCAACTCTCTG
 TTGGGGAGCTCTGCATCTCGTCCACCTCAAGAACCTGAAGAATGGCTCTGTTAAAAAGGGCCAGCCTGT
 GGACCCTGCCAGCGTCTGCTGAAGCAGGCAAAGACCCAGCCTGGCTGGCAGCAGACACAGATACGCG
 GAGCAGGAAAACGAATCAACCAGGGAAGCGCCAGGTGCTCTGAGAATGGCGAACTGAAGTTTCCAG
 AAAAAATAGGATTGCCTGCAGCACCTTCTCAGCAAAAATAGAACCAGCAAACCCACAGCCACGAGGAA
 GAGGAGGTGGTCGGCGCCGGAGACCCGTAACCTGGAGAAGTCGGAGGACGAGCCACCTTTGACTTCCC
 AAGCCTTCGCTCATTCTCAGGAGGTTAAGATCTGCATCGAAGGCCGATCTAACGTGGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210675 protein sequence
 Red=Cloning site Green=Tags(s)

MKSNQERSNECLPPKKREIPATSRPSEEKATALPSDNHCVEGVAVLPSTPGIRGHGGRRHGSAGTSGEHG
 LQGMGLHKALSAGLDYSPPSAPRSVPTANTLPTVYPPPPQSGTPVSPVQYAHLSHTFQFIGSSQYSGPYAG
 FIPSQLISPSGNPVTSAVASAAGATTPSQRSQLEAYSTLLANMGSLSQAPGHKVEPPPQHL SRAAGLVN
 PGSPPPPTQQNQYIHISSSPQSSGRATSPPP I PVHLHPHQTMIPHTLTLGPSSQVVVQYSDAGGHFVPRE
 STKKAESSRLQQAMQAKEVLNGEMEKSRRYGASSVELSLGKASSKSVPHPYESRHVVVHPSPADYSSRD
 TSGVRGSVMVLPNSSTPSADLEAQQTTTHREASPSTLNDKSGLHLGKPGHRSYALSPHTVIQTTHSASEPL
 PVGLPATAFYAGTQPPVIGYLSGQQQAITYAGGLPQHLVIPGNQPLLIPVGSMDTPGAASAIVTSSPQ
 FAAVPHTFVTALPKSENFNPEALVTQAAYPAMVQAQIHLVVVQSVASPTTASPTLPPYFMKGSIIQLAN
 GELKKVEDLKTEDFIQSAEISNDLKIDSSTVERIEESHSPGVAVIQFVAVGEHRAQVSVEVLVEYPPFFVFG
 QGWSSCCPERTSQLFDLPCSKLSVGDVCSLTLKLNKNGSVKKGQVPDPASVLLKQAKTDSL AGRHRYA
 EQENGINQGSAQVLENGELKFPEKIGLPAAPFLSKIEPSKPTATRRRWSAPETRKLEKSEDEPPLTLP
 KPSLIPQEVKICIEGRSNVVK

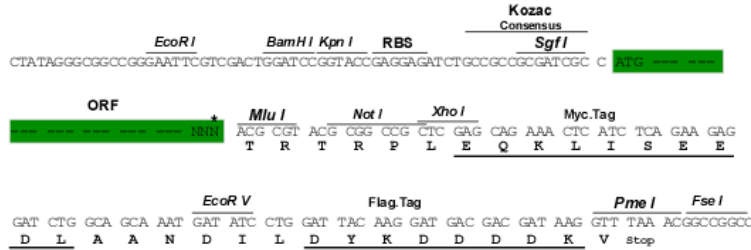
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_009124

ORF Size: 2376 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_009124.6](#)

RefSeq Size: 10599 bp

RefSeq ORF: 2376 bp

Locus ID: 20238

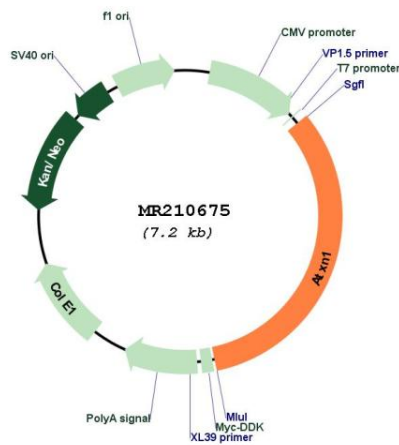
UniProt ID: [P54254](#)

Cytogenetics: 13 21.98 cM

MW: 83.8 kDa

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]

Product images:



Circular map for MR210675