

Product datasheet for **MC223812**

Atn1 (NM_007881) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atn1 (NM_007881) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atn1
Synonyms: Atr1; atrophin-1; Drpla
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223812 representing NM_007881
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGACACGACAGAATAAAGACTCGATGTCAATGAGGAGTGGACGGAAGAAAGAGGCCCCCGGGCCC
GGGAAGAGCTGAGATCAAGGGGCGGGCCCTCCCCTGGAGGGGTGACACATCCAGCAGTGTGGCAAAGC
TGAGAAGTCCAGGCAGACAGCCAAGAAGGCCCGGATAGAGGAGCCCTCTGCCCAAAGGCCAGCAAGCAG
GGCCGGAGCGAGGAGATCTCAGAGAGTGAGAGCGAGGAGACCAGTGCGCCAAAAAGACCAAAACCGAGC
AGGAGCTCCCTCGCCCGAGTCTCCCTCGGATCTGGACAGCTTGATGGGCGCAGCATTAAACGATGACGG
CAGCAGCGACCCTAGAGATATAGACCAGGACAACCGAAGCACATCCCCAGCATCTACAGCCCGGGCAGC
GTGGAAAATGACTCGGACTCATCTCTGGCCTGTCCCAGGGCCCCGCCCCCCTACCACCCACCTCCAC
TCTTCCCTCCTTCCCCTCCACCACCAGACAGCACTCCCGACAGCCAGAGTCTGGCTTTGAACCTCATCC
TTCTGTGCCGCTACTGGATATCATGCTCCGATGGAGCCCCCACATCGAGATTATCCAGGGCCCCACCA
CCTGGAGCTCCTCCACACACCCACAGCTCTACCCTGGGAATGCTAGTGGAGGTGTTTTATCTGGACCCC
CCATGGGTCCCAAAGGGGAGCCGCTGCCTCCTCAGTGGGTGCCCTAGCGGAGGCAAGCAACACCCCCC
ACCCACTACCCCAATTCCAATATCAAGTTCTGGGCGCAGTGGTGTCTCTCAGCAAAGCCACCCAGTGT
CCAGTGGGTGGTGGGAGCTTACCTTCTGCACCACCACCAGCTTCTTCCCCCATGTGACACCAAACCTGC
CTCCTCCACCTGCCCTGAGACCCCTCAACAATGCCTCAGCCTCTCCTCCTGGCATGGGGCTCAGCCAAT
CCCTGGGCATCTGCCCTCTCCCCATGCCATGGGGCAGGGCATGAGTGGACTTCTCCTGGCCAGAGAAG
GGTCCAACCTGGCCCTTCTCCCCACCCTTGGCCCCAGCTTCTTCTCTGCCCTGGGCTCCAATGC
GATATCCATATTCATCTCCAGTAGCTCTGCCGAGCCTTCTAGTTCTCCTCCTCCTCTGCCTCCCA
GTACCCTGCTTCCAGGCCCTGCCAGTTATCCTATTCTTCCCCACCAACTAGTATGTCTGTCTCT
AATCAGCCACCCAAGTACACCCAGCCTTCTCTCCATCCCAAGCTGTGTGGAGCCAGGGTCCACCTCCTC
CTCCTCCCTATGGCCGCCTCTTGCCAAACAACAACCCATCCAGGCCCTTCCCTCCTACTGGGGTCA
ATCTACAGCCACCCAGCAGCCCTACACATCACCATCACCAGCAGCAGCCACAGCAACAACATCATCAT
GAAAACCTGGGCCCCCTCCACCCGGAGCGTATCCTCACCTCTAGAGAGCAGTAACTCCCATCATGCAC



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ACCCTTACAACATGTCACCCTCCCTGGGGTCTTTAAGGCCCTACCCCCAGGGCCAGCACACCTGCCTCC
ACCTCATGGCCAGGTGTCTATAACCAAGCAGGTCCCAATGGTCCCCAGTTTCTTCTTCCAACCTTTCC
GGGTCTTCTCTCAAGCCTCCTATTCAATGTTTACACCCCTCTTATCCCAGGGCCCCCAAGGAGCATCT
ACCCCTTCCCACCAGTCCCTCCAGTACCACCTCCTCAGTACCCTTTCCACTGTCATCGCCACCGTGGC
TTCTCGCCAGCAGGCTACAAAACAGCTTCGCCACCTGGGCCCTCAGTACAGCAAGAGAGCCCCATCC
CCAGGGTCTACAAGACAGCCACCCCGCTGGATACAAACCGGGGTACCACCTCCTTCAGAACAGGGA
CCCCACCGGCTATCGAGGCACCTCTCCGCCAGCAGGCCAGGGACCTTCAAACCAGGTTACCGACCGT
GGGGCCGGGGCCCTGCCACCCGCGGGGCTTCAAGTTTGTATCTCTGCCTCCGCCACCTGCGGCCCCG
ACTACAGGGCCGCCCTGACCGCCACGCAGATCAAACAGGAGCCGGCGGAAGAGTATGAACCTCCCGAGA
GTCCGGTGCCTCCGGCCCGCAGCCCTCGCCCCCTCCAAGGTGGTGGACGTGCCAGCCATGCCAGCCA
GTCAGCCAGGTTCAATAAGCACTTGACCGCGGCTTCAACTCGTGCAGCGCAGCAGCTGTACTTCGTG
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AGCGCGCGCGGAGGAGAAAGAGCGCGAGCGGGAACGCGAAAAGGAGCGCGAGCGGAGAAAGA
GCGCGAGCTGGAGCGAGTGTGAAACTGGCCAGGAGGGCCGTGCTCCAGTGGAGTGCCATCTCTGGT
CCAGTGCCCATCGCCCTCCCTTTGAGCCTGGCAGCGCTGTGGTACAGTGCCCTTACCTGGGTCTG
ATACTCCGGCCTTGCGCACTCTCAGTGAATACGCCCGACCTCATGTATGCTCCTGGCAATCGCAACCA
CCCATTCTATGTGCCCTTGGGGCAGTGGACCCGGGGTCTGGGTTACAATGTCCCAGCCCTGTACAGC
AGCGACCCAGTGCCTGAGAACGGGAGCGGGAAGCCCGTGAACGTGACCTCCGTGACCGGCTCAAGCCTG
GCTTTGAGGTGAAACCTAGTGAGCTGGAACCCCTACATGGGGTCCCAGGGCCAGGCTGGATCCCTTCCC
CCGACACGGGGCCTGGCTCTACAGCCCGGCCACCTGGCCTGCATCCTTTCCCTTTTATCCGAGCCTG
GGGCCCCGGAACGAGAACGGCTAGCGCTGGCAGCTGGCCAGCCTTGCCTCCTGACATGTCTTATGCTG
AGCGGTTGGCAGTGAAAGGCAGCATGCAGAAAGGTTGGCAGCCCTGGCAATGATCCACTAGCCCGGCT
GCAGATGCTCAACGTGACTCCCCATCACCACAGCACTCCACATCCACTCTCACCTTACCTGCACCAG
CAGGATGCTATCCACGCAGCCTCTGCCTCGGTGCACCCTCTCATTGACCCCTGGCCTCAGGGTCTACC
TTACCCGATCCCTACCAGCTGGGACCTCCCCAACCCCTTCTTCTCACCTCTGCAGGAGAACGA
AGTTCTTCTGCTACCAGCTTTTTGCTGCCCTTACCGGGACCTGCCGGCCTCCCTTCTGCTCCAATGTCA
GCGGCTCATCAGCTGCAGGCCATGCACGCGCAGTCACTGAGCTGCAGCGCTTGGCGCTGGAACAGCAGC
AGTGGCTACATGCTCATACCCATTGCACAGCGTCCACTACCTGCCAGGAAAGACTACTACAGTCACT
GAAGAAGGAGAGTGACAAGCCGCTAG
    
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_007881
- Insert Size:** 3528 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: [NM_007881.4](#), [NP_031907.2](#)

RefSeq Size: 4426 bp

RefSeq ORF: 3528 bp

Locus ID: 13498

UniProt ID: [O35126](#)

Cytogenetics: 6 59.17 cM

Gene Summary: Transcriptional corepressor. Corepressor of MTG8 transcriptional repression. Has some intrinsic repression activity which is independent of the number of the poly-Q repeats (By similarity). Recruits NR2E1 to repress transcription. Promotes vascular smooth cell (VSMC) migration and orientation.[UniProtKB/Swiss-Prot Function]