

Product datasheet for MC224433

Atrn (NM_009730) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atrn (NM_009730) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atrn
Synonyms:	AW558010; mg; Mgc; Mgca
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224433 representing NM_009730 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGGCGGTGGCGGCGGGCGGCGACTGAGGCGGGCTGAGGGGAGCAGCAGCGGCACAGCAGCGC
CTGCGGGCAGGAAGGGCAGGCAGCACCCGACCCTGCACCGCAGAGGGCCTGGAGGCCGGACCGCGCGC
CCGGCTGTGTCTACCGCGGTGTGTGCGGGGCGCTGCCCGCCGCGCTGCTGCCGCTCTTTTCG
CTGCTGCTGCTGCCGCTGCCCGGGAGGCCGAGGCCGCTGCGGTGGCGGGCGGCGGTGTGGGCTCGGCC
CAGCCGAGGCCAAGGAATGTGACCGGCCGTGTGCAACGCGGGCCGCTGCAACCTGGCACCGGCCAGTG
CGTCTGCCACGGGCTGGGTGGGCGAGCAATGCCAGCACTGCGGGGGCCGCTTCAGACTAACTGGCTCT
TCTGGATTTGTAACAGATGGACCTGGGAATTATAAATAAAGACGAAGTGACATGGCTCATTGAAGGAC
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TTATGATGGGACTCAATCTACGCACCTCTGATTGCTGCCTTTAGTGGCCTCATTGTTCTGAAAGAGAT
GGCAATGAGACGGCTCCTGAGGTCACCTGTCACCTCAGGTTATGCACTGCTGCATTTTTTCAGTGATGCTG
CTTATAATCTGACTGGATTTAATACACTTACAATTTTGACATGTGCCGAATAATTGCTCAGGCCGAGG
AGAGTGTAAGAGCAGTAACAGCAGCAGCGCTGTTGAGTGTGAATGTTCTGAAAACCTGAAAAGGGGAGTCTG
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GAGGGTGTCTCTGCTTTCCTCACTGGCAGGGTCTGGATGCTCAATTCCTGTGCCAGCTAACAGCTTTT
TTGGACTCGAGAAGAATATTCTGATTTAAAGCTTCCCAGAGCCTCTCATAAAGCTGTGGTCAATGGAAAT
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CTTCTAGGGAATGGCTTCCACTAAACCTTCTGTGAACAGTGTGGTTGTAAGATATGGTCATTCTTTGGC
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CCCCTCTATGGATATATAAGCGTTGTGCAGGAATATGACTTGGAAAAGAACACATGGAGTATATTACAT
ACTCAGGGTGTCTTGTGCAAGGGGTTATGGCCACAGTAGTGTATTATGATGACAGGACCAAGGCTCTGT



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ACGTTTCATGGTGGCTACAAGGCTTTCAGCGCCAACAAATACCGGCTTGCAGATGACCTCTACAGATACGA
 TGTGGATACTCAGATGTGGACCATTCTTAAGGACAGCCGATTTTTCCGTTACTTGATACAGCTGTGATA
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 CAGTGGGAGCCCCGGAATCAAGAGTGCATCGCCCTGCCGAAAATATCTGTGGCAATGGCTGGCATTGG
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 CTTACTGGTGTGGGAGGATATGTCTCCATTACAAAATAGTTTGTGTCAGTGGATGCCATCTGAGCCAG
 TGATGCTGGCTTCTGTGGGATCTTGTGACAGCCTAGTACTCGGGGATTAAGGCTGCAACCTGCATCAAC
 CCTCTCAATGGCAGCGTCTGTGAAAGGCCGTGCAAAACCACAGTGCCAAGCAGTGCCGGACACCATGTGCC
 TGCGGACAGCGTGTGGCAGTGCCTAGCAGCAGCTCGGAGTGCATGTGGTGCAGTAACATGAAGCAGTG
 TGTGGACTCCAATGCCTACGTGGCTCCTTCCCTTTGGCCAGTGTATGGAATGGTATACGATGAGCAGC
 TGCCCACCTGAAAATTGCTCTGGCTACTGTACCTGCAGCCATTGCTTGGAGCAGCCAGGCTGTGGTTGGT
 GTACTGATCCTAGCAATACTGGGAAAGGAAAATGTATTGAGGGCAGCTATAAAGGACCTGTGAAGATGCC
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 AGATACAACCTGGTCTTTCATTCAGTGTCCAGCTTGCCAGTGCACGACACAGCAAAATGCATCAACCAGA
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 ACCGGCAAGTGTCTGTACCACCAAAGGTGTCAAGGGGACGAGTGCCAGCTATGTGAGGTAGAAAATC
 GATACCAGGAAACCCCTCTCAAAGGAACATGCTACTATACCCTTCTCATTGACTATCAGTTCACCTTTAG
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 CCGGAACCCAGACTGGAGAAGAGGTGCCTGTTGTTTCAAAAACCAACATCAAGGAATACAAGATAGCTT
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 TGGCCATCAAAAATTCAGATTGCCTTCTCCAGCACAGCAACTTCATGGACCTGGTACAGTTCTTCGTGA
 CTTTCTCAGTTGTTTCTCCTCGCTGCTTCTGGTGGTGCAGTGGTCTGGAAGATCAAGCAGAGCTGTTG
 GGCATCCAGGCGGAGAGACAACTTCTCGGGAGATGCAACAGATGGCCAGCCGCCCTTTGCTTCTGTA
 AACGTTGCCTTGGAAACAGATGAAGAACCTCCTGATCTCATTGGGGGAAGTATAAAGACCGTTTCTAAGC
 CCATTGCCCTGGAGCCCTGCTTTGGTAACAAAGCCGACGCTCCTCTGTATTCTGAGGCTCCCTCGAGG
 ACTGGGAGGAATCCCTCCTCCTGGTCAAGTCAAGTCTCGCTGTGGCAGTGCCTGGTGGACATTTCTCAG
 CAGATGCCAATAGTGTACAAGGAGAAGTCAAGAGCTGTAAGAAACCGGAAGCAGCAGCCGCTGCACAGC
 CTGGAACCTGCATTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009730
Insert Size: 4287 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:	<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:	NM_009730.3 , NP_033860.2
RefSeq Size:	8753 bp
RefSeq ORF:	4287 bp
Locus ID:	11990
UniProt ID:	Q9WU60
Cytogenetics:	2 63.26 cM
Gene Summary:	This gene encodes a widely expressed transmembrane glycoprotein that plays important roles in diverse physiological processes such as regulation of hair pigmentation, monocyte-T cell interaction and control of energy homeostasis. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. Certain mutations in this gene are responsible for the mahogany mouse phenotype of dark brown or black coat on a normally agouti background. Mice with loss-of-function mutations in this gene exhibit black coat color, tremor, adiposity, higher basal metabolic rate, juvenile-onset hypomyelination and age-dependent spongiform neurodegeneration of the central nervous system. [provided by RefSeq, Jul 2016]