

Product datasheet for **MC205186**

Atad3a (NM_179203) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atad3a (NM_179203) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atad3a
Synonyms:	2400004H09Rik; Atad3; mKIAA1273; Tob3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC058373
 GCGGCGCGTGGTACTGCGAGGAGCCTCGCGAGTACGCTCCGGTACGGTCCGCCGAGGGCGCGCGGAGC
 TTGAGACCATGTCTGGCTCTTCGGCATCAAGGGCCCAAGGGCGAAGGCACAGGGCCTCCGCTGCCCT
 TGCCGCCCGCTCAACCCGGGGCGGAGGGCGGGTACCCGCGGGCGGGAGACCGGCCATCGCCCAAGGA
 CAAATGGAGCAACTTCGACCCGACGGCCTGGAACGTGCGGCCAAAGCGGCTCGCGAGTTGGAGCACTCG
 CGCCATGCCAAGGAGGCACTGAGTCTCGCACAGATGCAGGAGCAGACGCTGCAGCTGGAACAGCAGTCCA
 AGCTCAAGGAGTACGAAGCTGCCGTAGAGCAGCTGAAGAGCGAACAGATCCGTGTGCAAGCCGAGGAAAG
 AAGGAAAACCTGACTGAAGAGACACGACAGCACCAGGCTAGGGCCAGTACCAGGATAAGCTCGCTCGA
 CAGCGCTATGAGGACCAGCTGAAACAACAGCAACTTCTGAATGAAGAGAATTTAAGGAAAACAGAGGAGT
 CTGTGCAGAAGCAGGAGGCCATACGCGGAGCCACTGTGGAGCGCGAGATGGAGCTGAGGCATAAAAAACGA
 GATGTTGCGGGTGAAGCTGAAGCCGAGCAGGGCCAAGGCTGATCGAGAGAATGCAGATATCATCCGG
 GAACAGATTGCACTCAAGGCTGCTGAGCACCAGCCAGACCATCTTGGAGTCTATCAGGACAGCTGGCACCT
 TGCTTGGTGAAGATTCCGTGCATTTGTGACAGACTGGGACAAAGTACAGCTACGGTGGCTGGGTGAC
 ACTATTAGCTGTTGGAGTCTATTCTGCAAAGAATGCTACTTCTGTTGCTGGTCCGTATATTGAGGCCGA
 TTGGGAAAGCCGCTCTTGGTGAAGAGACTCCCGAATCTCAGTCTAGAGGCATTGAGGCATCCCATCC
 AGGTGACGAGGCGACTGGTACGACAGACCCAGGATGCATTGGAGGGCGTATCCTCAGTCCTAGCCTGGA
 GGCACGGGTCCGAGATATTGCCATCGCAACAAGAAATACCAAGAAGAACAAAAGCCTGTATAGGAACGTT
 CTGATGTATGGGCCCCGGGACTGGCAAGACACTATTTGCCAAGAACTTGCACTGCATTAGGCATGG
 ACTACGCCATCATGACAGGCGGGGACGTGGCCCAATGGGGCGGGAGGGTGTGACTGCCATGCACAAGGT
 CTTGACTGGGCAAGCACCAGCCGACGAGGCTCCTGCTCTTTGTGGATGAAGCAGACGCCTTCTCAGG
 AAACGAGCGACTGAAAAGATAAGTGAAGACCTCAGGGCTACTCTGAATGCCTTCTACACAGGACAGGAC
 AGCACAGTAGTAAGTTCATGCTGGTCTTGCCAGTAACCAGCCTGAGCAGTTTGATTGGGCTATCAATGA
 CCGCATTGACGAGATGGTCTGCTTTGCCCTGCCACAGCGGGAGGAGCGAGAGCGCCTGGTGAAGATGTAT
 TTTGACAAGTATGCTTAAAGCCGGCCACAGAAGGAAAGCAGCGCTTGAAGGTGGCCAGTTTACTATG
 GAAAGAAATGCTCAGAGGTTGCCAGCTAACGGAGGGATGTACAGCCGGGAGATTGCTCAGCTTCTGT
 GGCGTGGCAGGCCATGGCATATTCATCTGAGGATGGAGTCTCACGGAAGCTATGATGGATGCCCGTGTG
 CAGGATGCTGTGCAGCAGCACCAGCAGAAGATGCAGTGGCTTAAAGTAGAGAGACCCGATTCCCAGACCA
 ACAAGCCGCCACATCCTTCACTCCTCAGCTGCTGAGCTGGACCTGGACACCTTGTACACCTGACTGGGGC
 AGCCAGTCTCTATGACCACACTGCTCCCTCCTTCTGTCTTCTTGGACCTCTGAAGAGGTCAACATTG
 CTCCAAATGCCTCTCGGAGTTGTGGGATACTGGAGGTGTGAGTCTCTGCTCCACACCTCCTCGTC
 TCTGACTCTGAGTCTGGCAGAGGGAGGCATACTGCCTTCTTTACCTCAGTACACTGGTGAACATGTC
 TACAAGCCAGAGCAGAGCAGAGAGTGTGACAGTGGCGTACCACAAGCCAGTGGCTATGCCAGCGGGAC
 TGGGGCCTACAGGACCAGGCTAAAGGCACAGGGGCCCTCAGCTTCTTGACATTACTCCTACCATATA
 CACATCTGTGCCAAGAATTGGCCAGTCTTTACTCGGTAGAGTGGATCTGGTGTAGACAGCGCTTGGCC
 CGTGGCATCCAAGCGTCAGAACTACCGCTTCCCTCTACTGAGTCCGGCCCTTTAAATCCAGAATCGAA
 TAAAACCTGTGACTGATAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_179203

Insert Size: 1776 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: [BC058373](#), [AAH58373](#)

RefSeq Size: 2414 bp

RefSeq ORF: 1776 bp

Locus ID: 108888

UniProt ID: [Q92511](#)

Cytogenetics: 4 E2

Gene Summary: Essential for mitochondrial network organization, mitochondrial metabolism and cell growth at organism and cellular level. May play an important role in mitochondrial protein synthesis. May also participate in mitochondrial DNA replication. May bind to mitochondrial DNA D-loops and contribute to nucleoid stability. Required for enhanced channeling of cholesterol for hormone-dependent steroidogenesis (By similarity).[UniProtKB/Swiss-Prot Function]