

Product datasheet for **MC204081**

Atad1 (NM_026487) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atad1 (NM_026487) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atad1
Synonyms:	4921525H23Rik; AW107648; Thorase
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC029085
 CCGCTCTCCCATCGTCTCTGGTCTGCCTCTGGGTTAACAAATCAAGATGGTACATGCTGAAGCCTTTTCT
 CGTCCATTGAGTCGGAATGAAGTTGTCGGTTTAAATTTCCGTTTAAACAATATTTGGTGCAGTAACGTA
 TCACTATTAATGGATGGTAGATGCCATTGACCCACCAGGAAGCAGAAGGTAGAAGCTCAGAAACAGGC
 GGAAAACTGATGAAGCAAATTTGGTGTGAAAAATGTGAAGCTTTCAGAATATGAAATGAGTATTGCTGCT
 CATCTAGTAGACCCTCTTAATATGCATGTTACTTGGAGTGATATAGCAGGTTTAGATGACGTCATTACAG
 ATCTGAAAGACACAGTCATCTTACCTATCAAAAAGAAGCATTGTTTGGAAATTCAGACTACTGCAGCC
 TCCAAAAGGTGTTCTTCTGTATGGACCTCCAGGCTGTGGGAAAACATTAATTGCCAAAGCAACAGCCAAA
 GAAGCAGGCTGTGCGTTCATTAACCTCCAGCCTTCGACACTGACTGATAAGTGGTATGGAGAATCTCAAA
 AACTGGCTGCTGCTGTTTTCTCCCTTGCCATAAAGCTACAGCCTTCTATCATATTTATTGATGAAATAGA
 CTCTTTCTACGAAATCGTTCAGTTCTGACCACGAAGCTACAGCGATGATGAAAGCTCAGTTTATGAGT
 CTCTGGGATGGACTGGACACTGATCACAGCTGCCAGGTTATAGTAATGGGAGCTACCAATCGCCCTCAAG
 ACCTTGACTCCGCTATAATGCGAAGAATGCCTACACGATTTTCATATTAACCAGCCTGCTCTAAAACAAAG
 AGAAGCAATTTAAAGCTCATCTTGAAAAATGAAATGTGGATAGACACGTAGATCTTCTAGAAGTTGCC
 CAGGAACTGATGGATTTTCAGGAAGTGACCTAAAAGAAATGTGTCGGGATGCCGCCCTCTCTGTGTCA
 GGGAAATGTCAATTCTACATCAGAAGAGAGTCCAGATGAAGATGAAATCCGGCCTGTGCAACAGCAGGA
 CCTGCATCGGGCAATTGAAAAGATGAAGAAGTCAAGGATGCAGCCTTTCAGAATGTTCTAACTCACGTT
 TGTTTAGATTAGGAGTTGAGGATCATTTGTGCTGTCCAGTGTCCCGTCTGCACAGCAGTGAGGGAAATC
 CAGGCTTGGGTCATATTCTCAGATCTTTGCTGTATATAAACGGTGTATTGCTTGTGCAAGAAATCATG
 CGGAGGAACTGAGTGCAGCCTGAGTGTGGGTGCTGTGCTGACCTTTTTAGCCATATGCTGTTATAGCCT
 TATAGAGTCTAAGCTGGTCTTAATGGAGTAAATGATTTGTCATTAGTGAGGAATGGGGTGTGGTTAGGTG
 CTGGTTCTAGACACGTGAGTATGAATGTGAGTGTGTGTATGAGTGTATCAATGTATATATCCAC
 TTTTTTAAATATTCTGTAGATAAGTTGAATTCAGAAGCTTTTTTCCCCCACTACTGAATCCAAAAG
 CACCAGATAGTCTGTAGCAAACTGGGATTTAAGGCAGGATTTGACAGGTCAGGAGATTGAGCCATTC
 CTAGGTGTCACTAGGTGTTTGGGCAAGTTTTTAAAGTTGAACATTTTTCTCTGCGGTTGGTTGAATCAAC
 CACATCTGAATATGCACGTGTCTCAAGTATAGTGGTTGTCAGGAGAATCAGATGACAAACACAGTTTGCT
 CAGTGATCAGCAGGGATTATCCACCTCATCTGCTGTGACACCGAGTAGACTTTTTGAAGTTTTACT
 GAATTACATTAAGAAGGATTGAAAACCTTTCAAAAAGATGGGTTAAGAAACCTCAGTCTCTTTAATAC
 GTGTACATAATTCTCAGTGAACAGGTCTGTAACCTTATTAATGTTGTTGAAAGTTATATGTTCTTTAAT
 TATGTTCAAATTTCAATTTGGTCAACCAACAAAATGATAGTTTATATAAATAGTCACTACTAAATGTGCT
 AAAAAACTCACTTTGTAACCTAAATTTAAAAATTTTTCTCATTTATAAATGTGTTCAAATAATACACAT
 CAAAATTTCTGTGTTGTATCTGTAGTCACTTGATGCTATGTGAACCACATATAAACTCTCTTTTTTCA
 AACCTCCAGTAGCCAGACTTCTGATTCAGGCACCTTGACATGTGACAGAAGTACAGTACAGTCCACAGC
 ACAGTCCTAAGGTGCCTCTGAGTCAACGAGAGATTAACGACGACAAAAACGCTTTGGGTTTTATTATT
 TGTTTTATTTCTTTGAAAACCTAAATTTCTCCTATGTTTACTGAGTTAATTTCTCTAGTAATGTGCTCACA
 AGAACCTTCTAGACACTTTCTTCTCCATTTGTGTTTTGGGGTTATAGATTGCGGGAGACTACTTAGGAT
 AACAAAAGCAAGCTGGGCAAGATTGTAAGATGATGGGAAATGAATGCTAATACAAGACGCCAAGAAAC
 ATATCCTGTTTTATAATTTACAATAAAAGTCCCTTTCTTTTATTCTTTTTCCCCACTAGTTCTTGA
 TTGTTTTCAGTTGCTTGGATTGCGGATTTTGTGTTTATAAGATTTGTGTTTGGGCAGTTTTTATTGTC
 AGTTGACATTTACATTTTTATAGCAGACATTTTAAATTTGATTTATTCTGTTTAAATATGAGTTTTAGT
 AATTTAATTTAATGTAATGGCATGTTCAAGAAATGATTGATGTGTATTTCTTTGTGCTTTTTTCTCT
 TCTATTAATTTCAATAGAATTTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_026487
Insert Size: 1086 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:	BC029085 , AAH29085
RefSeq Size:	2843 bp
RefSeq ORF:	1086 bp
Locus ID:	67979
UniProt ID:	Q9D5T0
Cytogenetics:	19 C1
Gene Summary:	ATPase that plays a critical role in regulating the surface expression of AMPA receptors (AMPA), thereby regulating synaptic plasticity and learning and memory. Required for NMDA-stimulated AMPAR internalization and inhibition of GRIA1 and GRIA2 recycling back to the plasma membrane; these activities are ATPase-dependent.[UniProtKB/Swiss-Prot Function]