

Product datasheet for RN212927

Atad1 (NM_001035002) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atad1 (NM_001035002) Rat Untagged Clone
Tag: Tag Free
Symbol: Atad1
Synonyms: Ab2-088
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN212927 representing NM_001035002
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTACATGCTGAAGCCTTTTCTCGTCCATTGAGTCGGAACGAAGTTGTCGGTTAATTTTTCGTTTAA
CAATCTTTGGTGCAGTAACATACTTCACTATTAATGGATGGTAGATGCCATTGACCCACCAGGAAGCA
GAAAGTGAAGCTCAGAAACAGGCGGAAAACTGATGAAGCAAAATGGTGTGAAAAATGTGAAGCTTTCA
GAGTATGAGATGAGTATTGCTGCTCATCTGGTAGACCCTCTAATATGCATGTTACTTGGAGTGATATAG
CAGGTTTATAGATGATGTTATTACAGATCTGAAAGACACAGTCATCCTACCTATCAAAAAGAAGCATTGTT
TGAGAATCCAGACTTCTGCAGCCTCCCAAAGGTGTTCTCCTGTATGGACCTCCGGGCTGTGGGAAAAACA
TTAATTGCCAAAGCGACAGCCAAAGAAGCGGGCTGTCGATTTATTAACCTTCAGCCTCCACACTGACAG
ATAAGTGGTATGGAGAATCTCAGAACTGGCTGCTGTCTTCTCCCTGGCCATAAAGCTACAGCCGTC
TATCATATTTATCGATGAAATAGACTCATTCTACGAAATCGTCCAGTCCGACCACGAAGCTACAGCA
ATGATGAAAGCCAGTTTATGAGTCTTTGGGATGGACTGGACACTGATCACAGCTGCCAGGTCATAGTGA
TGGGAGCTACCAATCGTCTCAAGACCTTGACTCTGCTATAATGAGAAGAATGCCACAAGATTTTCATAT
TAACCAGCCTGCTCTAAAACAAAGAGAAGCAATTTTAAAACATCTTGAAAAATGAAAAATGTGGATAGA
CATGTAGATCTTTAGAAAGTTGCCAGGAACTGATGGGTTTTTCAGGAAGTGACCTAAAAGAAATGTGTC
GAGATGCTGCCCTCCTCTGCGTCAGGGAATATGTCAATTCTACATCAGAAGAAAGTCATGACGAAGATGA
AATCCGGCCTGTGCAGCAGCAGGACTTGTCATCGGGCAATTGAGAAGATGAAGAAATCAAAGGATGCAGCG
TTTCAGAGCGTTCTGACTCACGTTTGTAGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001035002



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:	<u>NM_001035002.1</u> , <u>NP_001030174.1</u>
RefSeq Size:	2330 bp
RefSeq ORF:	1086 bp
Locus ID:	309532
UniProt ID:	<u>Q505I9</u>
Cytogenetics:	1q52
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]