

Product datasheet for **MG205530**

Atad1 (NM_026487) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atad1 (NM_026487) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atad1
Synonyms:	4921525H23Rik; AW107648; Thorase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205530 representing NM_026487 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTACATGCTGAAGCCTTTTCTCGTCCATTGAGTCGGAATGAAGTTGTCGGTTAATTTCCGTTTAA
CAATATTTGGTGCAGTAACGTACTTCACATTAATGATGGTAGATGCCATTGACCCACCAGGAAGCA
GAAGGTAGAAGCTCAGAAACAGGCGGAAAACTGATGAAGCAAATGGTGTGAAAAATGTGAAGCTTTCA
GAATATGAAATGAGTATTGCTGCTCATCTAGTAGACCCTTAAATATGCATGTTACTTGGAGTGATATAG
CAGGTTTATAGATGACGTCATTACAGATCTGAAAGACACAGTCATCTTACCTATCAAAAAGAAGCATTGTT
TGAGAATTCAGACTACTGCAGCCTCCAAAAGGTGTTCTTCTGTATGGACCTCCAGGCTGTGGGAAAACA
TTAATTGCCAAAGCAACAGCCAAAGAAGCAGGCTGTCGGTTCATTAACCTCCAGCCTTCGACACTGACTG
ATAAGTGGTATGGAGAATCTCAAAAAGTGGCTGCTGCTGTTTTCTCCCTTGCCATAAAGCTACAGCCTTC
TATCATATTTATTTGATGAAATAGACTCTTCTACGAAATCGTCCAGTTCTGACCACGAAGCTACAGCG
ATGATGAAAGCTCAGTTTATGAGTCTCTGGGATGGACTGGACTGATCACAGCTGCCAGGTTATAGTAA
TGGGAGCTACCAATCGCCCTCAAGACCTTGACTCCGCTAATGCGAAGAATGCCTACACGATTTTCATAT
TAACCAGCCTGCTCTAAAACAAAGAGAAGCAATTTTAAAGCTCATCTTGA AAAATGAAAATGTGGATAGA
CACGTAGATCTTCTAGAAGTTGCCAGGAACTGATGGATTTTCAGGAAGTGACCTAAAAGAAATGTGTC
GGGATGCCGCCCTCCTCTGTGTACAGGAAATATGTCAATTCATACATCAGAAGAGAGTCACGATGAAGATGA
AATCCGGCCTGTGCAACAGCAGGACCTGCATCGGCAATTGAAAAGATGAAGAAGTCAAAGGATGCAGCC
TTTCAGAAATGTTCTAACTCACGTTTGTAGAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205530 representing NM_026487
 Red=Cloning site Green=Tags(s)

MVHAEAFSRPLSRNEVVGLIFRLTIFGAVTYFTIKWMVDAIDPTRKQKVEAQKQAEKLMKQIGVKNVKLS
 EYEMSIAAHLVDPLNMHVTWSDIAGLDDVITDLKDTVILPIKHKHLFENSRLQPPKGVLLYGPPGCGKT
 LIAKATAKEAGCRFINLQPSTLTDKWYGESQKLA AVFSLAIKLP SII FIDEIDSFLNRSSSDHEATA
 MMKAQFMSLWDGLDTHSCQVI VMGATNRPQDLDSA IMRRMPTRFHINQPALKQREAILKILKNENVDR
 HVDLLEVAQETDGFSGSDLKEMCRDAALLCVREYVNSTSEESHDEDEIRPVQQDLHRAIEKMKKSKDAA
 FQNVLTHVCLD

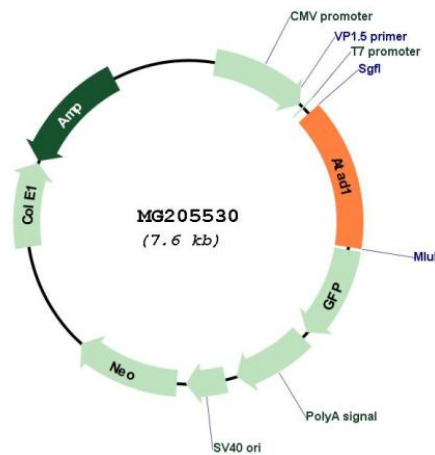
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026487

ORF Size:	1083 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_026487.3 , NP_080763.2
RefSeq Size:	2813 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]