

Product datasheet for MC207731

Atat1 (NM_001142744) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atat1 (NM_001142744) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atat1
Synonyms: 0610011P08Rik; 2610008K08Rik; 2610110G12Rik; 3110080J08Rik; Mec17; TAT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207731 representing NM_001142744
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTCCTCGATGTGGATGCGCTGTTCCCGAGCGGATCACCGTCTGGACCAGCACCTGCGGC
 CTCGGCCCGCCGACCCGGAACCAACGCCGCGCCGTGGATCTGCAGCAGCAATCATGACTATTGT
 AGATGAGCTGGCAAGGCTTCTGCAAGGCGCAGCACCTCCCTGCACCCATCACCAGCGCTTTGAGGATG
 CAAAGCAACCGGCACGTTATTTACATACTGAAGGACACCTCAGCCCGACCGGCAGGAAAGGAGCCATTA
 TTGGTTTCTCAAAGTTGGATACAAGAAGCTCTTTGTAAGTGGATGACCGGAGGCTCACAATGAGGTAGA
 ACCCTTTGCAATCTGGACTTTTACATCCACGAGTCCGGTCAACGGCATGGCCACGGGCGAGAATTTTT
 CAGCATATGTTACAGAAAGAGCGAGTGGAGCCCCACCAACTGGCCATTGACCGACCATCGCCGAAGCTGC
 TCAAGTTCTGAATAAGCACTACAACCTGGAGACCACAGTCCCACAGGTGAACAATTTGTCATCTTTGA
 AGGCTTCTTTGCCATCAGCACCGGCCCCCACTTCTCTCTGAGAGCAACTCGACACTCTCGTGTCTGT
 GTGGCCGATCCCATACCTGCTGCTCCAGCACGGAAGCTGCCACCAAAAAGAGCAGAGGGGAGACATTAAGC
 CATACTCTCCAGTGACAGAGAATTCCTGAAGGTAGCTGTGGAGCCTCTTGCCCTGAACAGGGCCCC
 TCGGCGTGCCACACTCCAGCCACCCACCTCCAGTTCTAGCAGCCTGGGCAACTCACCAGGATCGGGGT
 CCCCTTCGGCCCTTTGTTCCAGAGCAGGAGCTGCTTCGCTCCCTGCGTCTCTGTCCCCACACCCTACTG
 CACGCCTTCTGCTGGCCACTGACCTGGAGGCAGCCAGCCAGCGCAGACGCACCAGGGGGACTCCCTG
 GGGGCTGGTAGCCAAAGCTGCCACTACAGCCGCATGGGGATTCAATACCTCATTCTGGGTACAGGC
 AACCAAGAACGGAAGCAGGGGAAACAGGAAGCGGAGGATAGGTCGGCCAGTGAGGATCGGGTCTTGTAC
 TGGATGGGTCTGGGGAGGAGCCTACACAGACAGGTGCTCAAGGGCCAGCGCCACCCCCAGTCCTG
 GACGGTGGGTGGGACATAATGAACGCCAGGGTCATTGAAACCTGCAGGAACGCCGAGCACCAGGCC
 TGG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001142744
Insert Size:	1266 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_001142744.1</u> , <u>NP_001136216.1</u>
RefSeq Size:	1463 bp
RefSeq ORF:	1266 bp
Locus ID:	73242
UniProt ID:	<u>Q8K341</u>
Cytogenetics:	17 B1
Gene Summary:	<p>Specifically acetylates 'Lys-40' in alpha-tubulin on the lumenal side of microtubules. Promotes microtubule destabilization and accelerates microtubule dynamics; this activity may be independent of acetylation activity. Acetylates alpha-tubulin with a slow enzymatic rate, due to a catalytic site that is not optimized for acetyl transfer. Enters the microtubule through each end and diffuses quickly throughout the lumen of microtubules. Acetylates only long/old microtubules because of its slow acetylation rate since it does not have time to act on dynamically unstable microtubules before the enzyme is released. Required for normal sperm flagellar function. Promotes directional cell locomotion and chemotaxis, through AP2A2-dependent acetylation of alpha-tubulin at clathrin-coated pits that are concentrated at the leading edge of migrating cells. May facilitate primary cilium assembly.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). It should be noted that this variant contains an overlapping upstream ORF that may interfere with the translation of the annotated CDS.</p>