

Product datasheet for RN214327

Atat1 (NM_212498) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atat1 (NM_212498) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atat1
Synonyms:	3110080J08Rik; Mec17; RGD1303066; TAT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214327 representing NM_212498 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGTTCCTCGATGTGGATGCGCTGTTCCCGAGCGGATCACCGTCTGGACCAGCACCTGCGGC
CTCCGGCCCGCCGACCCGGAACCAACGCCGGCCGTGGATCTGCAGCAGCAATCATGACTATTGT
AGATGAGCTGGCAAGGCTTCTGCAAGGCTCAGCACCTCCCTGCACCCATCACCAGCGCTTTGAGGATG
CAGAGCAACCGACACGTTATTTATGTAATAAGGACACCTCAGCCCGCCCGCAGGGAAAGGAGCCATTA
TTGGTTTCTCAAAGTTGGATACAAGAAGCTCTTTGTAAGTGGATGACCGTGGAGGCTCACAATGAGGTAGA
ACCCCTTTGCATTCTGGACTTTTACATCCACGAGTCAGTGCAACGGCACGGCCATGGGAGAGAACTTTTC
CAGTATATGTTACAGAAAGAGCGAGTGGAAACACCAACTTGCCATTGACCGACCATCACCGAACTGC
TCAAGTTCTGAACAAGCACTACAACCTGGAGACCACAGTCCCACAGGTGAACAACCTCGTGATCTTCGA
AGGCTTCTTGCCATCAACACCGGTCCCCACTCCCTCTCTGAGGGCAACTCGACTCTCGTGCTGCT
GTGGTCGATCCTATACCGCTGCTCCGGCAAGGAAGCTGCCACCGAAAAGAGCAGAGGGAGACATTAAGC
CATACTCCTCCAGTGACAGAGAATTCTGAAGGTGGCTGTGGAGCCTCCCTGGCCCTGAACAGGGCCCC
CCGGCGTGCCACACTCCAGCACACCCACTCCAGTTCTAGCAGCCTGGGCAACTCGCCGGATCGGGGT
CCCCTTCGGCCCTTCGTGCCAGAGCAGGAGCTGCTTCGATCCCTGCGTCTCTGTCCCCACACCCCACTG
CACGCCTTCTGCTGGCCACTGACCTGGAGGCAGCCAGCCAGCGCAGACGCACCGAGGAGACTCCCTG
GGGGCTGGTAGCCAAAGCTGCCACTACAGCCGCATGGGGGATTCAATACCTCATTCTGGGTACAGGC
AACCAAGAACGGAAGCAGGGGGAACAGGAAGCAGAGGATAGGTCGGCCAGTGAGGATCAGGTCTTGTAC
AGGATGGGTCTGGGGAGGAACCTACGCATACAGTTGCTCAAGGGCCAGGCTCCACCGCCAGTCTCTG
GATGGTGGGTGGGACATACTGAACGCCAGGGTCATTGAAACCTGCAGGAACGCCCAACACCGAGCCT
TGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_212498
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:	NM_212498.1 , NP_997663.1
RefSeq Size:	1424 bp
RefSeq ORF:	1266 bp
Locus ID:	361789
UniProt ID:	Q6MG11
Cytogenetics:	20p12
Gene Summary:	Specifically acetylates 'Lys-40' in alpha-tubulin on the luminal 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]