

Product datasheet for **RN203203**

Atcay (NM_001040190) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atcay (NM_001040190) Rat Untagged Clone
Tag: Tag Free
Symbol: Atcay
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN203203 representing NM_001040190
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGGACCACAGAAGCTACATTACGAATGAAAAATGTGGACGTGAGGGATGAATGGCAGGATGAGGATC
TGCCAGACCCGCTCCCAGAAGACACCGGGGAGGATCACCTGGCGGCACGGTGAAGACTCCTCCTCTCC
TCCCTCCACCCTAAACCTGAGTGGAGCACATCGGAAGAGAAAGACGCTGGTGGCCAGAGATCAACATC
TCTCTGGACCAAAGTGAGGGCTCTCTGCTGTCTGATGACTTCCTCGACACCCCTGATGACCTGGACATCA
ATGTGGATGACATTGAGACGCCAGATGAACTGACTCTCTGGAGTTCTTGGGAAATGGCAATGAGCTTGA
GTGGGAAGATGACACCCAGTGGCCACCGCTAAAAACATGCCTGGTGACAGCGCAGACCTGTTTGGGGAC
GGCTCTGGGGAAGACGGCAGTGCAGCCAATGGCCGTCTGTGGCGGACTGTATCATCGGGGAGCAGGAGC
ATCGCATTGACCTGCATATGATCCGGCCCTACATGAAGGTGGTGACCCACGGAGGATACTACGGAGAAGG
TCTCAACGCCATCATCGTCTTTGCGCCCTGCTTCTGCCAGATAGCAGCTCTCCAGACTACCACTACATC
ATGGAGAATCTTCTGTACGTCATCAGCAGCCTAGAGCTGCTAGTGGCTGAGGACTACATGATCGTGT
ACCTGAATGGTGCCACGCCCCGAGGAGGATGCCGGGCATTGGCTGGCTGAAGAAGTGTACCACATGAT
TGACAGGAGACTGAGGAAGAATCTAAAGTCCCTGATCATCGTCCACCCCTCTGGTTCATTGCGACCCGTG
CTGGCCATCTCCCGCCCTTCATCAGTGTCAAGTTCATCAGTAAAATCCAGTATGTGCACAGCCTCGAGG
AGCTGGAGCAGCTCATCCCCATGGAGCAGTGCAGCTGCCAGCCTGTGTCTGCAATATGAAGAACAGAG
ACTCCGAGCCAAGAGGGAGAGCGCTCGGCCACCGCAGCCCGAGTTCCTCCTGCCAGGTCTGAAGAAAA
CCAGAGACTGTGGAAGAAGAGGACAGGGCAGCAGAGGTGACAGAGGACCAGGAAACGAGCATGTCT**GATGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001040190
Insert Size: 1119 bp



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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_001040190.1</u> , <u>NP_001035280.1</u>
RefSeq Size:	2722 bp
RefSeq ORF:	1119 bp
Locus ID:	362826
UniProt ID:	<u>Q1M168</u>
Cytogenetics:	7q11
Gene Summary:	Functions in the development of neural tissues, particularly the postnatal maturation of the cerebellar cortex. May play a role in neurotransmission through regulation of glutaminase/GLS, an enzyme responsible for the production in neurons of the glutamate neurotransmitter. Alternatively, may regulate the localization of mitochondria within axons and dendrites.[UniProtKB/Swiss-Prot Function]