

## Product datasheet for **RR203203**

### Atcay (NM\_001040190) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atcay (NM\_001040190) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Atcay  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203203 representing NM\_001040190  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACCACAGAAGCTACATTACGAATGAAAAATGTGGACGTGAGGGATGAATGGCAGGATGAGGATC  
TGCCACAGCCGCTCCCAGAAGACACCGGGGAGGATCACCTGGCGGCACGGTGAAGACTCCTCCTCTCC  
TCCCTCCACCCTAAACCTGAGTGGAGCACATCGGAAGAGAAAGACGCTGGTGGCCCCAGAGATCAACATC  
TCTCTGGACCAAAGTGAGGGCTCTCTGTCTGATGACTTCCTCGACACCCCTGATGACCTGGACATCA  
ATGTGGATGACATTGAGACGCCAGATGAACTGACTCTCTGGAGTTCTTGGGAAATGGCAATGAGCTTGA  
GTGGGAAGATGACACCCAGTGGCCACCGCTAAAAACATGCCTGGTGACAGCGCAGACCTGTTTGGGGAC  
GGCTCTGGGGAAGACGGCAGTGCAGCCAATGGCCGTCTGTGGCGGACTGTCATCATCGGGGAGCAGGAGC  
ATCGCATTGACCTGCATATGATCCGGCCCTACATGAAGGTGGTGACCCACGGAGGATACTACGGAGAAGG  
TCTCAACGCCATCATCGTCTTTGCGGCCTGCTTCTGCCAGATAGCAGCTCTCCAGACTACCACTACATC  
ATGGAGAATCTTCTGTACGTCATCAGCAGCCTAGAGCTGCTAGTGGCTGAGGACTACATGATCGTGT  
ACCTGAATGGTGCCACGCCCCGAGGAGGATGCCGGGCATTGGCTGGCTGAAGAAGTGTACCACATGAT  
TGACAGGAGACTGAGGAAGAATCTAAAGTCCCTGATCATCGTCCACCCCTCTGGTTCATTCGCACCCGTG  
CTGGCCATCTCCCGCCCTTCATCAGTGTCAAGTTCATCAGTAAAATCCAGTATGTGCACAGCCTCGAGG  
AGCTGGAGCAGCTCATCCCCATGGAGCAGTGCAGCTGCCAGCCTGTGTCTGCAATATGAAGAACAGAG  
ACTCCGAGCCAAGAGGGAGAGCGCTCGGCCACCGCAGCCCGAGTTCCTCCTGCCAGGTCTGAAGAAAAA  
CCAGAGACTGTGGAAGAAGAGGACAGGGCAGCAGAGGTGACAGAGGACCAGGAAACGAGCATGTCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203203 representing NM\_001040190  
 Red=Cloning site Green=Tags(s)

MGTTTEATLRMENVDVRDEWQDEDLPRPLPEDTGEDHLGGTVEDSSSPSTLNLGSAHRKRKTLVAPEINI  
 SLDQSEGSLLSDDFLDTPDDLINVDDIETPDETDSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGD  
 GSGEDGSAANGRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSSPDYHYI  
 MENLFLYVISSLELLVAEDYMIIVYLNGATPRRRMPGIGWLKCCYHMDRRLRKNLKSIIIVHPSWFIRTV  
 LAISRPFISVKFISKIQYVHSLLEELQLIPMEHVQLPACVLQYEEQRLRAKRESARPPQPEFLLRSEEK  
 PETVEEDRAAEVTDQETSMS

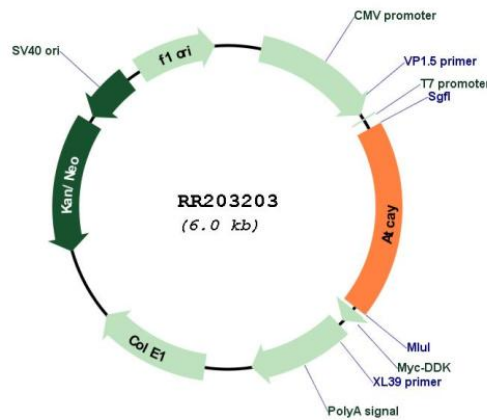
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001040190

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001040190.1</a> , <a href="#">NP_001035280.1</a>
<b>RefSeq Size:</b>	2722 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	362826
<b>UniProt ID:</b>	<a href="#">Q1M168</a>
<b>Cytogenetics:</b>	7q11
<b>MW:</b>	42.1 kDa
<b>Gene Summary:</b>	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]