

Product datasheet for MR205747

Atcay (NM_178662) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atcay (NM_178662) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atcay
Synonyms:	3322401A10Rik; BB077577; BNIP-H; CLAC; hes; ji
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205747 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAACCACAGAAGCTACACTAAGGATGGAAAATGTGGACGTGAGGGATGAATGGCAGGATGAGGATC
TGCCAGACCGCTCCCAGAAGACACCGGGTGGAGCGGCTGGGTGGCGCAGTGGAAGACTCCTCCTCACC
TCCCTCCACCCTGAACTTGAGCGGAGCACATCGAAAGAGAAAGACGCTGGTGGCTCCAGAGATCAACATC
TCCCTGGACCAAAGCGAGGGCTCTGTGCTCCGACGACTTCTCGACACACCTGATGACCTGGACATCA
ATGTGGACGACATTGAGACGCCAGATGAACTGACTCTCTGGAGTCTTGGGAAATGGCAATGAACTTGA
GTGGGAAGATGACACCCAGTGGCCACCGCCAAAACATGCCTGGTACAGTGGCAGCTGTTGGGGAC
GGCTCTGCGGAAGACGGCAGTGGCGCAACGGTCGTCTGTGGCGAACTGTCATCATAGGGGAGCAAGAGC
ATCGCATCGACCTGCATATGATCCGGCCCTACATGAAGGTGGTACCCATGGAGGATACTACGGGGAAGG
TCTCAACGCCATCATCGTGTGGCAGCCTGCTTCTGCCAGATAGCAGCTCCCCAGACTACACTACATC
ATGGAGAATCTCTTCTGTACGTCATCAGCAGCCTAGAAGTGCCTGGTGGCTGAGGACTACATGATCGTGT
ATCTGAACGGCGCCACGCCCCGGAGGAGGATGCCTGGCATTGGTTGGCTGAAGAAGTGTACCACATGAT
TGACAGGAGACTGAGGAAGAATCTAAAGTCCCTGATCATCGTCCACCCCTCCTGGTTCATTCCGACTGTG
TTGGCCATCTCCCGCCATTTCATCAGTGTCAAGTTCATCAGTAAAATTCAGTACGTGCACAGCCTGGAAG
AGCTGGAGCGACTGATCCCATGGAACACGTGCAGCTGCCAGACTGTGTCCTGCAATATGAAGAGCAGAG
ACTCCGAGCCAAGAGGGAGAGCACACGGCCACCGCAGCCGGAGTTCCTCCTTCCAGGTCAGAAGAAAAG
CCAGAGACTGTGGAAGAAGAGGACAGGGCAGCAGAGGCAACAGAGGACCAGGAACTAGCATGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205747 protein sequence
 Red=Cloning site Green=Tags(s)

MGTTEATLRMENVDVRDEWQDEDLPRPLPEDTGVERLGGAVEDSSSPSTLNLGSAHRKRKTLVAPEINI
 SLDQSEGSLLSDDFLDTPDDLDINVDDIETPDETDSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGD
 GSAEDGSAANGRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGELNAIIVFAACFLPDSSSPDYHYI
 MENLFLYVISSLELLVAEDYMIVYLNATPRRRMPGIGWLKCCYHMDRRLRKNLKSIIIVHPSWFIRTV
 LAISRPFISVKFISKIQYVHSLLELERLIPMEHVQLPDCVLQYEEQRLRAKRESTRPPQPEFLLPRSEEK
 PETVEEEDRAAEATEDQETSMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178662

ORF Size: 1119 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:

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_178662.4](#)

RefSeq Size: 3677 bp

RefSeq ORF: 1119 bp

Locus ID: 16467

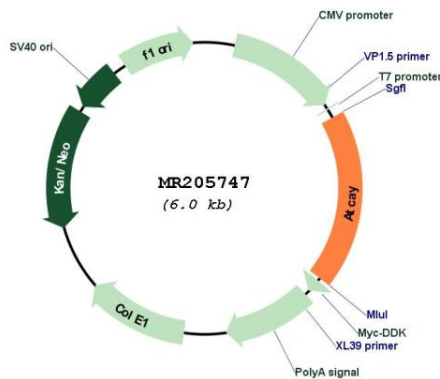
UniProt ID: [Q8BHE3](#)

Cytogenetics: 10 39.72 cM

MW: 42.2 kDa

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]

Product images:



Circular map for MR205747