

Product datasheet for **MG205747**

Atcay (NM_178662) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atcay (NM_178662) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atcay
Synonyms:	3322401A10Rik; BB077577; BNIP-H; CLAC; hes; ji
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205747 representing NM_178662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAACCACAGAAGCTACACTAAGGATGGAAAATGTGGACGTGAGGGATGAATGGCAGGATGAGGATC
TGCCAGACCGCTCCCAGAAGACACCGGGTGGAGCGGCTGGGTGGCGCAGTGGAAGACTCCTCCTCACC
TCCCTCCACCCTGAACTTGAGCGGAGCACATCGAAAGAGAAAGACGCTGGTGGCTCCAGAGATCAACATC
TCCCTGGACCAAAGCGAGGGCTCTGTGTCCGACGACTTCTCGACACACCTGATGACCTGGACATCA
ATGTGGACGACATTGAGACGCCAGATGAACTGACTCTCTGGAGTTCTTGGGAAATGGCAATGAACTTGA
GTGGGAAGATGACACCCAGTGGCCACCGCCAAAACATGCCTGGTACAGTGGCAGCTGTTGGGGAC
GGCTCTGCGGAAGACGGCAGTGGCGCAACGGTCGTCTGTGGCGAACTGTCATCATAGGGGAGCAAGAGC
ATCGCATCGACCTGCATATGATCCGGCCCTACATGAAGGTGGTACCCATGGAGGATACTACGGGGAAGG
TCTCAACGCCATCATCGTGTGGCAGCCTGCTTCTGCCAGATAGCAGCTCCCCAGACTACACTACATC
ATGGAGAATCTTCTGTACGTCATCAGCAGCCTAGAAGTGCCTGGTGGTGGCTGAGGACTACATGATCGTGT
ATCTGAACGGCGCCACGCCCGGAGGAGGATGCCTGGCATTGGTGGCTGAAGAAGTGTACCACATGAT
TGACAGGAGACTGAGGAAGAATCTAAAGTCCCTGATCATCGTCCACCCCTCCTGGTTCATTCCGACTGTG
TTGGCCATCTCCCGCCATTTCATCAGTGTCAAGTTCATCAGTAAAATTCAGTACGTGCACAGCCTGGAAG
AGCTGGAGCGACTGATTCATGGAACACGTGCAGCTGCCAGACTGTGTCCTGCAATATGAAGAGCAGAG
ACTCCGAGCCAAGAGGGAGAGCACACGGCCACCGCAGCCGGAGTTCCTCCTTCCAGGTCAGAAGAAAAG
CCAGAGACTGTGGAAGAAGAGGACAGGGCAGCAGAGGCAACAGAGGACCAGGAACTAGCATGTCC

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205747 representing NM_178662
 Red=Cloning site Green=Tags(s)

MGTTTEATLRMENVDVRDEWQDEDLPRPLPEDTGVERLGGAVEDSSSPSTLNLGSAHRKRKTLVAPEINI
 SLDQSEGLLSDDFLDTPDDLINVDIETPDETDSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGD
 GSAEDGSAANGRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGELNAIIVFAACFLPDSSSPDYHYI
 MENLFLYVISSLELLVAEDYMIYVNLGATPRRRMPGIGWLKCCYHMDRRLRKNLKSIIIVHPSWFIRTV
 LAISRPFISVKFISKIQYVHSLLELERLIPMEHVQLPDCVLQYEEQRLRAKRESTRPPQPEFLLPRSEEK
 PETVEEEDRAAEATEDQETSMS

TRTRPLE - GFP Tag - V

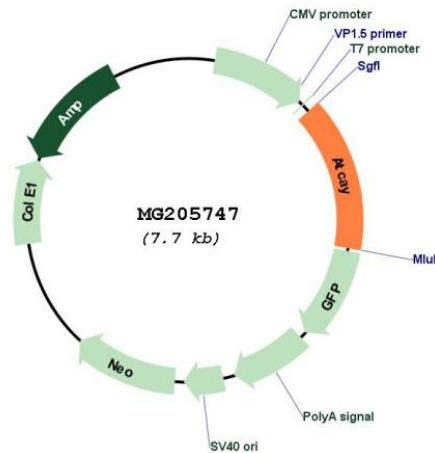
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_178662

ORF Size:	1116 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:	<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_178662.4
RefSeq Size:	3679 bp
RefSeq ORF:	1119 bp
Locus ID:	16467
UniProt ID:	Q8BHE3
Cytogenetics:	10 39.72 cM
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]