

Product datasheet for **RG204515**

ATCAY (NM_033064) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATCAY (NM_033064) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATCAY
Synonyms:	BNIP-H; CLAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204515 representing NM_033064 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACCACCGAAGCCACGCTCCGGATGGAAAACGTGGACGTGAAGGAGGAATGGCAGGACGAAGATC
TTCCCAGGCCACTCCCAGAAGAGACGGGGTGGAACTGCTTGGCAGCCCGGTGGAAGACACATCCTCTCC
TCCAACACGCTAAATTTCAACGGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATT
TCTCTGGATCAGAGTGAGGGTCCCTGCTGCTCCGATGACTTCTTGATACCCCTGATGACCTGGATTA
ACGTGGATGACATCGAGACCCCGATGAGACCGACTCGCTGGAGTTCCTGGGAATGGCAACGAAGTGA
GTGGGAAGACGACACCCCGTGGCCACCGCAAGAACATGCCCGGGACAGCGCGGATCTATTTGGGGAC
GGCAGCAGCGGAGGACGGCAGCGCCCAACGGGCGCTGTGGCGGACAGTGATCATCGGGGAGCAAGAGC
ACCGTATAGACCTGCACATGATCCGGCCTTACATGAAAGTGGTCAACCGAGGGTACTACGGCGAAGG
CCTCAACGCCATCATCGTCTTCGAGCCTGCTTCTTCCAGACAGCAGCCTCCCCGACTACCACTACATC
ATGGAGAACCTCTTCTGTACGTCATCAGCAGCTTAGAGCTCCTGGTGGCTGAGGACTACATGATCGTGT
ACCTGAACGGTGCCACGCCCGGGGAGGATGCCTGGAATCGGCTGGCTGAAGAAGTGTACCAGATGAT
CGACCGGAGGTTGCGGAAAAACCTGAAGTCTTGATCATCGTCCACCCCTCGTGGTTCATTCCGAGTGTG
CTGGCCATCTCTGCCCTTTCATCAGCGTCAAGTTCATCAACAAGATCCAGTACGTGCACAGCTTGGAAAG
ACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCCAGACTGCGTCTGCAATACGAAGAGGAAAG
ACTGAAGGCCAGGAGGGAGCGGAGGCCAGCCGAGGTTTGTGCTGCCAGGTCTGAAGAGAAGCCA
GAGGTGGCACCAGTGAAAAACAGGTCTGCTCTGCTCAGAAAGATCAGGAAACAAGCATGTCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204515 representing NM_033064
Red=Cloning site Green=Tags(s)

MGTTTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPNTLNFNGAHRKRKTLVAPEINI
 SLDQSEGSLLSDDFLDTPDDLINVDDIETPDETDLSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGD
 GTTEDGSAANGRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLDPDYHYI
 MENLFLYVISSLELLVAEDYMIIVYLNGATPRRRMPGIGWLKCKYQIMDRRLRKNLKSIIIVHPSWFIRTV
 LAISRPFISVKFINIKIQYVHSLLEDLEQLIPMEHVQIPDCVLQYEEERLKARRESARPQEFVLPREEK
 EVAPVENRSALVSEDQETSMS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033064

ORF Size: 1113 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_033064.5](#)

RefSeq Size: 5015 bp

RefSeq ORF: 1116 bp

Locus ID: 85300

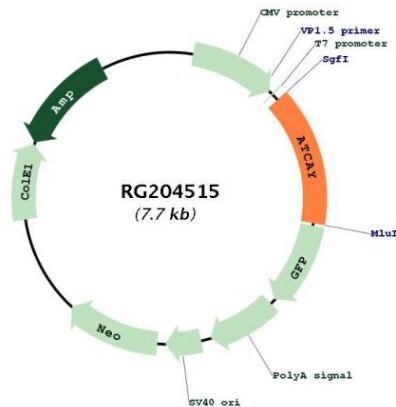
UniProt ID: [Q86WG3](#)

Cytogenetics: 19p13.3

Protein Families: Transmembrane

Gene Summary: This gene encodes a neuron-restricted protein that contains a CRAL-TRIO motif common to proteins that bind small lipophilic molecules. Mutations in this gene are associated with cerebellar ataxia, Cayman type. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204515