

Product datasheet for RC204515

ATCAY (NM_033064) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATCAY (NM_033064) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATCAY
Synonyms:	BNIP-H; CLAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204515 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACCACCGAAGCCACGCTCCGGATGGAAAACGTGGACGTGAAGGAGGAATGGCAGGACGAAGATC
TTCCCAGGCCACTCCCAGAAGAGACGGGGTGGAACTGCTTGGCAGCCCGGTGGAAGACACATCCTCTCC
TCCCAACACGCTAAATTTCAACGGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATT
TCTCTGGATCAGAGTGAGGGTCCCTGCTGCTCCGATGACTTCTTGATACCCCTGATGACCTGGATTA
ACGTGGATGACATCGAGACCCCGATGAGACCGACTCGCTGGAGTTCCTGGGAATGGCAACGAAGTGA
GTGGGAAGACGACACCCCGTGGCCACCGCAAGAACATGCCCGGGACAGCGCGGATCTATTTGGGGAC
GGCAGCAGCGGAGGACGGCAGCGCCGCAACGGGCGCTGTGGCGGACAGTGATCATCGGGGAGCAAGAGC
ACCGTATAGACCTGCACATGATCCGGCCTTACATGAAAGTGGTCAACCGAGGGTACTACGGCGAAGG
CCTCAACGCCATCATCGTCTTCGAGCCTGCTTCTTCCAGACAGCAGCCTCCCCGACTACCACTACATC
ATGGAGAACCTTCTGTACGTCATCAGCAGCTTAGAGCTCCTGGTGGCTGAGGACTACATGATCGTGT
ACCTGAACGGTGCCACGCCCGGGCGGAGGATGCCTGGAATCGGCTGGCTGAAGAAGTGTACCAGATGAT
CGACCGGAGGTTGCGGAAAAACCTGAAGTCTTGATCATCGTCCACCCCTCGTGGTTCATTCCGAGTGTG
CTGGCCATCTCTGCCCTTTCATCAGCGTCAAGTTCATCAACAAGATCCAGTACGTGCACAGCTTGAAG
ACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCCAGACTGCGTCTCCTGCAATACGAAGAGGAAAG
ACTGAAGGCCAGGAGGGAGCGGAGGCCCGAGGTTTGTGCTGCCAGGTCTGAAGAGAAGCCA
GAGGTGGCACCAGTGAAAAACAGGTCTGCTCTGGTCTCAGAAGATCAGGAAACAAGCATGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204515 protein sequence
Red=Cloning site Green=Tags(s)

MGTTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPNTLNFNGAHRKRKTLVAPEINI
 SLDQSEGSLLSDDFLDTPDDLINVDDIETPDETDLSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGD
 GTTEDGSAANGRLWRTVIIGEQRIDLHMIRPYMKVVTHGGYYGELNAIIVFAACFLPDSSLPDYHYI
 MENLFLYVISSLELLVAEDYMIIVYLNGATPRRRMPGIGWLKCCYQIMDRRLRKNLKSIIIVHPSWFIRTV
 LAISRPFISVKFINIKIQYVHSLLEDLEQLIPMEHVQIPDCVLQYEEERLKARRESARPQPEFVLPREEKP
 EVAPVENRSALVSEDQETSMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6324_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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: 5049 bp

RefSeq ORF: 1116 bp

Locus ID: 85300

UniProt ID: [Q86WG3](#)

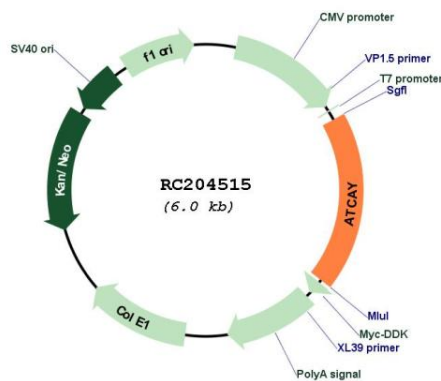
Cytogenetics: 19p13.3

Protein Families: Transmembrane

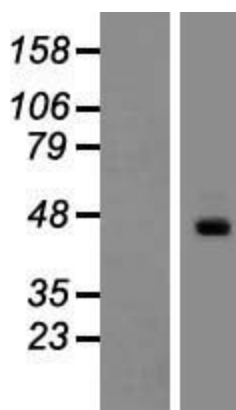
MW: 42.1 kDa

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]

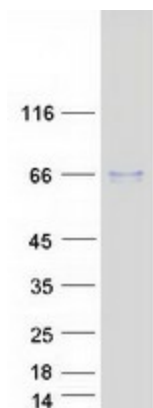
Product images:



Circular map for RC204515



Western blot validation of overexpression lysate (Cat# [LY409774]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATCAY protein (Cat# [TP304515]). The protein was produced from HEK293T cells transfected with ATCAY cDNA clone (Cat# RC204515) using MegaTran 2.0 (Cat# [TT210002]).