

Product datasheet for **RC200154**

Adracalin (AAAS) (NM_015665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adracalin (AAAS) (NM_015665) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adracalin
Synonyms:	AAA; AAASb; ADRACALA; ADRACALIN; ALADIN; GL003
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200154 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGCTCTCTGGGGTTGTTCCCTCCTCCACCGCCTCGGGTCAAGTCAACCTATATGAGCACAATAACG
 AGCTGGTGACGGCAGTAGCTATGAGAGCCCGCCCCGACTTCCGGGGCAGTGGATCAATCTTCTGT
 CCTACAACGTACAAGGATCCCCATAAGACCCCTGGAAGGCTGGACCATGGCACAAGAAGTGCCTTCATC
 CATCACGGGAGCAAGTGTGGAAGAGATGCATCAACATTTGGCGTGATGTGGGCCTTTTGGGGTGTAA
 ATGAAATTGCAAACCTCAGAAGAAGAGGTGTTGAGTGGTGAAGACGGCATCCGGCTGGGCCCTGGCACT
 CTGTGATGGGCCTTCCCTCCATGGTCCCTGTTCCCCATCTGTCTCTCAGGAGCGAAGATCTGATC
 GCTGAATTTGCCAAGTCAAAATTGGTCCAGTGTCTGCTGCGTGTCTTGCATGGCACCCACACCA
 ACAAGTTTGCAGTGGCCCTGCTAGATGACTCAGTCCGTGTGATAATGCCAGCAGCACCATAGTCCCCTC
 CCTGAAGCACCGCTGCAGCGAAATGTGGCGTCTCTGGCCTGGAAGCCCCTTAGTGCCTCTGTCTGGCT
 GTGGCCTGCCAGAGCTGCATTCTTATCTGGACCTGGACCTACCTCCTGTCTACCCGACCCCTTCTGTG
 GCTGTGCCAAGTGTGTCTCACCTGGGCATACACCTGTTACCAGCTTGGCCTGGGCCCCAGTGGGGG
 GCGGCTGCTCTCAGCTTACCCGTGGATGCTGCTATCCGGGTATGGGATGTCTAACAGAGACCTGTGTC
 CCCCTTCCCTGGTTTCGAGGAGGTGGGGTGACCAACCTGCTCTGGTCCCCAGACGGCAGCAAAATCCTGG
 CTACCCTCCTCAGCTGTCTTTCGAGTCTGGGAGGCCAGATGTGGACTTGTGAGAGGTGGCCTACTCT
 ATCAGGGCGTGTGACTGGTCTGGAGCCAGATGGCAGCCGACTGCTGTTCACTGTATTGGGAGAG
 CCACTGATTTACTCCCTGTCTTTCAGAACGTTGTTGGTGAAGGAAAGGGTGCCTGGAGGTGCAAAGT
 CAGCAACGATTGTGCAGATCTGTCTGAGACAACAATACAGACACCAGATGGTGAAGAGGCTTGGGGG
 AGAGGCTCACTCCATGGTCTGGGACCCAGTGGGGAACGCTGGCTGTGCTTATGAAAGGAAAGCCAAGG
 GTACAGGATGGTAAACAGTCACTCCTCTTTTCGCACTCGAAACAGCCCTGTGTTTGGCTCCTCCCT
 GTGGCATTATCCAGGGGAGCCAGGAGCCAGCCAGCTCATCACTTCCATCCTTCTTCAACAAAGG
 GGCCCTGCTCAGTGTGGGCTGGTCCACAGGCCAATTGCCACATCCCGCTGTACTTTGTCAATGCCAG
 TTTCCACGTTTTAGCCAGTGTGGGCGGGCCAGGAACCCCTGTGGGGTGGAGGCTCTATTATG
 ACCTGCCCTCTTACTGAGACATCCCCAACCTCTGCCCTTGGGACCTCTCCAGGGCCACCACCTGT
 TCTGCCCACTCCACATTCCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200154 protein sequence
 Red=Cloning site Green=Tags(s)

MCSLGLFPPPPRQVTLYEHNELVTGSSYESPPDFRGQWINLPVLQLTKDPLKTPGRLDHGTRTAFI
 HHREQVWKRCINIWRDVGLFGVLEIANSEEEVFVWKTASGWALALCRWASSLHGSLFPHLSRSEDLI
 AEFAQVTNWSSCLRVAWPHPTNKFAVALLDDSVRVYNASSTIVPSLKHRLQRNVASLAWKPLSASVLA
 VACQSCILIWTLDPSTLSTRPSSGCAQVLSHPGHPTVTSLAWAPSGGRLLSASPVDAAIRVWDVSTETCV
 PLPWFRGGVTNLLWSPDGSKILATTPSAVFRVWEAQMWTCERWPTLSGRCQTGCWSPDGSRLFTVLGE
 PLIYLSFPERCGEGKGCVGGAKSATIVADLSETTIQTPDGEERLGGEAHSMVWDPSEGERLAVLMKGKPR
 VQDGKPVILLFRTRNSPVFELLPCGIIQGEPGAQPLITFHPSFNKGALLSVGWSTGRIAHIPLYFVNAQ
 FPRFSPVLGRAQEPPAGGGSIHDLPLFTETSPTSAPWDPLPGPPVLPSPHSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6127_h07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_015665

ORF Size: 1638 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015665.3](#), [NP_056480.1](#)

RefSeq Size: 1854 bp

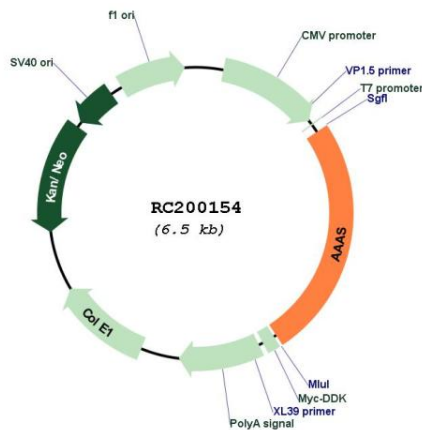
RefSeq ORF: 1641 bp

Locus ID: 8086

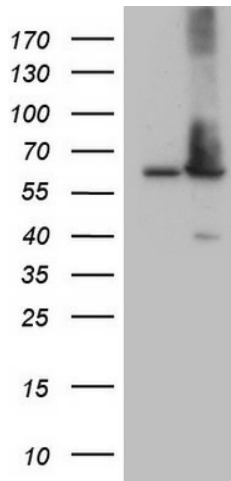
UniProt ID: [Q9NRG9](#)
Cytogenetics: 12q13.13
Domains: WD40
MW: 59.6 kDa

Gene Summary: The protein encoded by this gene is a member of the WD-repeat family of regulatory proteins and may be involved in normal development of the peripheral and central nervous system. The encoded protein is part of the nuclear pore complex and is anchored there by NDC1. Defects in this gene are a cause of achalasia-addisonianism-alacrima syndrome (AAAS), also called triple-A syndrome or Allgrove syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

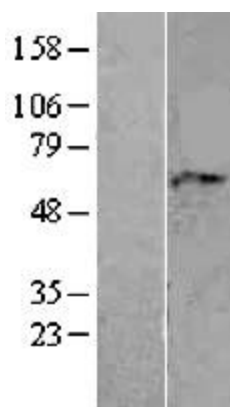
Product images:



Circular map for RC200154



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AAAS (Cat# RC200154, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AAAS (Cat# [TA808612])(1:2000). Positive lysates [LY402460] (100ug) and [LC402460] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402460]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200154 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).