

Product datasheet for **MR208691**

Aaas (NM_153416) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aaas (NM_153416) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aaas
Synonyms:	AAA; ADRACALA; D030041N15Rik; GL003
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208691 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCTCCCTGGGTTGTTCCCCCGCCGCCCTAGAGGTCAAGTCACCTGTATGAGCACAAATACG
 AGCTGGTGACCGCAACAGCTATGAGAGCCCGCTCCCGACTTTCGGGGCCAGTGGATCAATCTTCTGT
 CCTACACCTGACCAAGGATCCCCAAAAGCCCCAGGGAGGCTGGACCATGGTACAAGAACTGCCTTCATC
 CATCACCGTGAGCAAGTGTGGAAGAGATGCATCAATGTTTGGCATGATGTGGCCCTTTTGGCGTCTGA
 ATGAAATTGCGAATTCAGAGGAAGAAGTGTGAGTGGGTAAAGACAGCCTGCAGCTGGGCCCTGGCTCT
 CTGTGGCCCGCCTCCTCACTCCATGGCTCCCTGTTTCCACACCTCTCTCTCAGGAGTGAAGATCTGATT
 GCTGAATTTGCCAAGTAACTAACTGGTCCAGTGTCTTACGGGTCTTGCCTGGCATCTCACACCA
 ACAAGTTTGCAGTGGCCCTGCTGGACGACTCCATCCGTGTTTAAATGCCAACAGCACTATAGTTCCCTC
 CCTGAAGCACCGTCTGCAGCGAAATGTAGCAGCCTTGGCCTGGAAGCCCCCTCAGTGCCTCTGTCTGGCT
 GTGGCCTGCCAGAGCTGTATTCTCATCTGGACCTAGACCCCACTTCTTATCTACGAGACCTCCTCTG
 GCTGCGCCAGGTGTTGTCTCACCTGGGCACACACCAGTCACTAGCTTGGCTTGGGCCCAATGGGGG
 GTGGTGTCTCAGCCTCACCTGTAGTGTGTTATTCTGGTATGGGACGTTTCAACAGAGACTTGTGTC
 CCCCTTCTTGGTTCCGAGGAGGAGGGTTACCAATCTGCTGTGGTCCCCAGATGGCAGCAAAGTCTGG
 CTACTACTCCTTCTGCCGCTTTTAGAGTCTGGGAGGCCAGATGTGGACTTGTGAGGCGTGGCAACTCT
 TTCTGGGCGTGCCAGACTGGCTGCTGGAGTCCAGATGGAACCAGTCTGTTCACTGTATTGGGGAA
 GCATTAATTTATCCTTGTCAATCCAGAACGATGTGGAACAGGGAAAGGACATGTTGGAGTGCAAAGT
 CAGCAACCATCGTAGCAGATCTTCTGAGACAACAATTCAGACCCAGATGGAGAGGAGCAGCTCGGGG
 AGAGGCCCACTCCATGGTGTGGGACCAAGTGGTGAACGCTGGCTGTGCTCATGAAAGGAAACCCACAG
 GTTCAGGACGGGAATCCTGTATCCTCCTTTTTCGAACTCGAAACAGCCCCGTGTTGAACTGCTTCCCT
 GTGGTATTATTCAGGGGAAACCAGGAGCCAAAGCTCAGCTCATCACTTTCCATCCTTCTTCAACAAAGG
 GGCCTTGTAGTGTGTGCTGGTCCACAGGCCAATCACCCACATACCTCTGTACTTTGTCAATGCTCAG
 TTTCCACGCTTTAGCCAGTACTTGGTCGAGCCAGGAGCCTCCAGCTGGAGGGGGAGGCTCTATTATG
 AAGTGCCACTATTTACTGAGACATACCAACCTCTGCTCCTTGGGACCCTTCCAGGACAATCATCTGC
 TCAACCCCACTCCCTCATTCCCACTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208691 protein sequence
 Red=Cloning site Green=Tags(s)

MCSLGLFPPPPRQVTLYEHNELVTGNSYESPPDFRGQWINLPVLHLTKDPLKAPGRLDHGTRTAFI
 HHREQVWKRCINVWHDVGLFGVLEIANSEEEVFVWKTACSWALALCGRASSLHGLFPHLSRSEDLI
 AEFAQVTNWSSCLRVAWPHPTNKFAVALLDDSIKRVYANSTIVPSLKHRLQRNVAALAWKPLSASVLA
 VACQSCILIWTLDPSTLSTRPSSGCAQVLSHPGHPTVTSLAWAPNGGWLLSASPVDVAVILVWDVSTETCV
 PLPWFRGGVTNLLWSPDGSKVLATTPSAVFRVWEAQMWTCWPTLSGRCQTGCWSPDGNRLLFTVLGE
 ALIYSLFPERCGTGKGVGGAKSATIVADLSETTIQTPDGEERLGGEAHSMVWDPSSGERLAVLMKGNPQ
 VQDGNPVILLFRTRNSPVFELLPCGIIQGEPGAQQLITFHPSFNKGALLSVCWSTGRITHIPLVFNVAQ
 FPRFSPVLGRAQEPPAGGGGSIHEVPLFTETSPTSAPWDPLPGQSSAQPHSPHSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_153416

ORF Size: 1641 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_153416.1](#), [NM_153416.2](#), [NP_700465.1](#)
RefSeq Size: 1816 bp

RefSeq ORF: 1641 bp

Locus ID: 223921

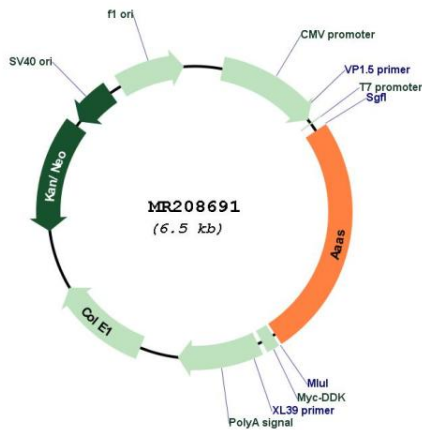
UniProt ID: [P58742](#)

Cytogenetics: 15 F3

MW: 59.4 kDa

Gene Summary: Plays a role in the normal development of the peripheral and central nervous system. Required for the correct localization of aurora kinase AURKA and the microtubule minus end-binding protein NUMA1 as well as a subset of AURKA targets which ensures proper spindle formation and timely chromosome alignment.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208691