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Product datasheet for MR206491

Aarsd1 (NM_144829) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aarsd1 (NM_144829) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aarsd1
Synonyms:	1110069E20Rik; 2310044P18Rik; AA589600; AlaX; AlaXp-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206491 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTTCCTGTGTCAGCGCGACAGCTACGCACGGGAGTTCACCACCACCGTGGTCTCCTGTAGTCCCG
CCGAGCTGCAGACGGACGCGAGCGGCGGCAAGAAAGAAGTGTTGAGCGGATTCCATGTGGTTCTGGAAGA
CACGCTGCTTTTCCCCGAGGGCGGGGGACAGCCTGATGACCGTGGTACCATCAATGACATCTCTGTGCTG
AGGGTGACCCGTCGTGGGGCCCAGGCCGATCACTTCACGGAGTCACCTCTGTCCCCTGGGAGTCAAGTCC
AGGTCCGGGTGGACTGGGAGCGGAGGTTTGACCACATGCAGCAGCATTCAGGGCAACATCTCATCACCGC
GGTTGCTGACCTTCTCTTCGGGCTGAAGACAACGTCATGGGAGTTAGGGAGACTCCGGAGTGTGATTGAG
TTGGACAGCCCTTCTGTGACTGCTGAGCAGGTGGCTGCTATCGAGCAGAGTGTCAATCAGAAAATCAGAG
ACCGGCTGCCTGTGAGTGTTCGAGAGCTGAGCCTGGATGACCCTGAGGTGGAGCAGGTGAGGGGTCGGGG
TTTGCCCGATGATCATGCTGGGCCCATTCGAGTTGTTACCATCGAAGGTGTAGACTCCAACATGTGCTGT
GGGACGCACGTGAGCAATCTCAGTGACCTTCAGGTCATTAAGATTCTGGGGACTGAGAAAGGGAAAAAGA
ACAAAAGCAACCTGATATTTCTGGCTGGGAATCGGGTACTGAAGTGGATGGAGCGAAGTCATGGAAGTGA
AAAGGCCTTGACCTCACTACTTAAGTGTGGCGTTGAGGATCATGTGGAAGCAGTAAAAAAGCTCCAGAAT
GCCACCAAGCTCCTGCAGAAGAACAACCTGAACCTCCTTAGAGACCTGGCTGTGCACACTGCCCACAGCC
TCAGGAGCAGCCCAGCCTGGGGTGGTGTGGTCACACTACACAGGAAAGAGGGTGATTCTGAATTCATGAA
TATCATTGCTAATGAGATTGGATCGGAGGAGACCCTCCTGTTCTTAACTGTGGGGGATGAGAAGGGTGCT
GGGCTCTTCTTACTGGCAGGCCCGGCAGAGGCTGTGGAAACCCTGGGGCCCAGGGTGGCTGAAGTCTTGG
AAGGCAAAGGAGCAGGGAAGAAGGGCCGCTTCCAGGGCAAAGCCACCAAGATGAGCCGCCGGGCAGAGGC
GCAGGCGCTTCTGCAGGACTATGTCAGCACACAGAGTGCTGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

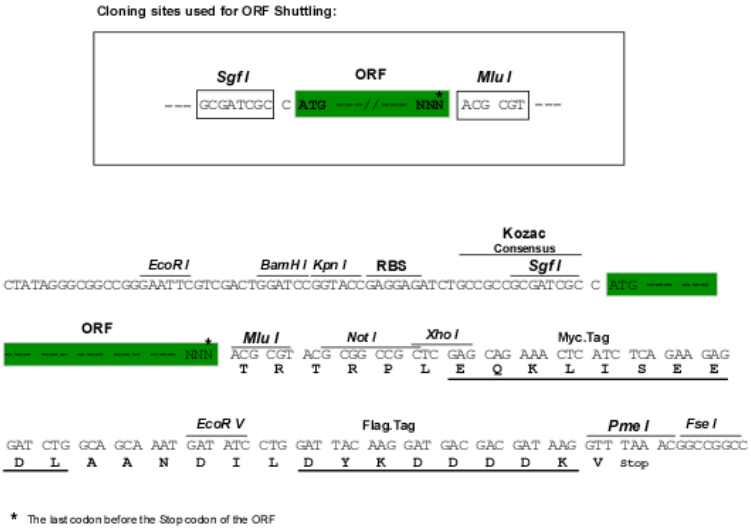
>MR206491 protein sequence
Red=Cloning site Green=Tags(s)

MAFLCQRDSYAREFTTTVVSCSPAELQTDASGGKKEVLSGFHVVLEDTLLFPEGGGQPDDRGTINDISVL
RVTRRGAQADHFTESPLSPGSQVQVRVDWERRFDHMQQHSGQHLITAVADLLFGLKTTSWELGRLRSVIE
LDSPSVTAEQVAAIEQSVNQKIRDRLPVSVRELSLDDPEVEQVRGRGLPDDHAGPIRVVTIEGVDSNMCC
GTHVSNLSDLQVIKILGTEKGKKNKSNLIFLAGNRVLKWMERSHGSEKALTSLLKCGVEDHVEAVKKLQN
ATKLLQKNNLNLLRDLAVHTAHSLRSSPAWGGVVTLHRKEGDSEFMNIIANEIGSEETLLFLTVGDEKGA
GLFLLAGPAEAVETLGPRVAEVLEGKGAGKKGRFQGKATKMSRRAEAQALLQDYVSTQSAEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144829

ORF Size: 1239 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_144829.1, NP_659078.1

RefSeq Size: 1346 bp

RefSeq ORF: 1239 bp

Locus ID: 69684

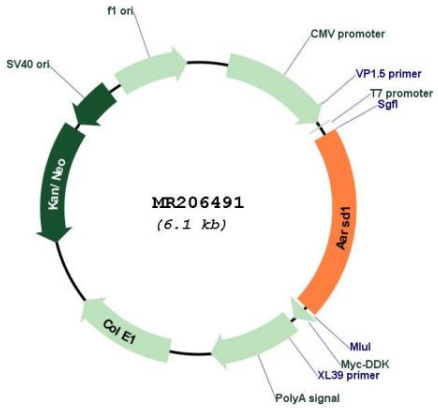
UniProt ID: Q3THG9

Cytogenetics: 11 D

MW: 45 kDa

Gene Summary: Functions in trans to edit the amino acid moiety from incorrectly charged Ser-tRNA(Ala). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206491