

Product datasheet for **MG206491**

Aarsd1 (NM_144829) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aarsd1 (NM_144829) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aarsd1
Synonyms:	1110069E20Rik; 2310044P18Rik; AA589600; AlaX; AlaXp-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206491 representing NM_144829 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTTCCTGTGTCAGCGCGACAGCTACGCACGGGAGTTCACCACCACCGTGGTCTCCTGTAGTCCCG
CCGAGCTGCAGACGGACGCGAGCGGGCGGAAGAAAGAAGTGTGAGCGGATTCATGTGGTCTGGAAGA
CACGCTGCTTTCCCGAGGGCGGGGACAGCCTGATGACCGTGGTACCATCAATGACATCTCTGTGCTG
AGGGTACCCGTCGTGGGCCCAGGCCGATCACCTCACGGAGTCACCTCTGTCCCCTGGGAGTCAAGTCC
AGGTCCGGGTGGACTGGGAGCGGAGTTTGACCACATGCAGCAGCATTACGGGCAACATCTCATCCCGC
GGTTGCTGACCTTCTCTCGGGCTGAAGACAACGTCATGGGAGTTAGGGAGACTCCGGAGTGTGATTGAG
TTGGACAGCCCTTCTGTGACTGCTGAGCAGGTGGCTGCTATCGAGCAGAGTGTCAATCAGAAAATCAGAG
ACCGGCTGCCTGTGAGTGTTCGAGAGCTGAGCCTGGATGACCCTGAGGTGGAGCAGGTGAGGGGTGGGG
TTTGCCCGATGATCATGCTGGGCCATTTCGAGTTGTTACCATCGAAGGTGTAGACTCCAACATGTGCTGT
GGGACGCACGTGAGCAATCTCAGTGACCTTCAGGTCATTAAGATTCTGGGGACTGAGAAAGGGAAAAAGA
ACAAAAGCAACCTGATATTTCTGGCTGGGAATCGGGTACTGAAGTGGATGGAGCGAAGTCATGGAAGTGA
AAAGCCCTTGACCTCACTACTTAAGTGTGGCGTTGAGGATCATGTGGAAGCAGTAAAAAGCTCCAGAAT
GCCACCAAGCTCCTGCAGAAGAACAACCTGAACCTCCTTAGAGACCTGGCTGTGCACACTGCCACAGCC
TCAGGAGCAGCCAGCCTGGGGTGGTGTGGTCACTACACAGGAAAGAGGGTGATTCTGAATTCATGAA
TATCATTGCTAATGAGATTGGATCGGAGGAGACCCCTGTTCTTAAGTGTGGGGATGAGAAGGGTGTCT
GGGCTCTTCTACTGGCAGGCCCGCAGAGGCTGTGAAACCCTGGGGCCAGGGTGGCTGAAGTCTTGG
AAGGCAAAGGAGCAGGGAAGAAGGGCCGCTTCCAGGGCAAAGCCACCAAGATGAGCCGCCGGCAGAGGC
GCAGGCGCTTCTGCAGGACTATGTCAGCACACAGAGTGTGAGGAG

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206491 representing NM_144829
 Red=Cloning site Green=Tags(s)

MAFLCQRDSYAREFTTTVVSCSPAELQTDASGGKKEVLSGFHVLEDLLFPEGGGQPDDRGTINDISVL
 RVTRRGAQADHF TESPLSPGSQVQVRVDWERRFDHMQQHSGQHLITAVADLLFGLKTTSWELGRLRSVIE
 LDSPSVTAEQVAAIEQSVNQKIRDRLPVSVRELSDDDPEVEQVRGRGLPDDHAGPIRVVTIEGVDSNMCC
 GTHVSNLSDLQVIKILGTEKGKKNKSNLIFLAGNRVLKWMERSHGSEKALTSLKCGVEDHVEAVKLLQN
 ATKLLQKNLNLRLDLAVHTAHSRLRSSPAWGGVVTLHRKEGDSEFMNIIANEIGSEETLLFLTVDGDEKGA
 GLFLLAGPAEAVETL GPRVAEVLEGGKAGKGRFQGKATKMSRRAEAQALLQDYVSTQSAEE

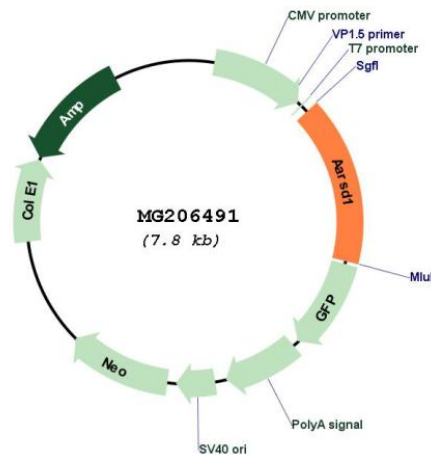
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144829

ORF Size:	1236 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:	<ol style="list-style-type: none">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
Gene Summary:	Functions in trans to edit the amino acid moiety from incorrectly charged Ser-tRNA(Ala). [UniProtKB/Swiss-Prot Function]