

Product datasheet for MR205989

Aar2 (NM_026661) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aar2 (NM_026661) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aar2
Synonyms:	0610011L14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205989 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCCATGCAGATGGATCCAGAGTTAGCCAAGCAGCTCTTCTTTGAAGGAGCCACGGTGGTCATTC
TGAACATGCCAAGGGGACAGAGTTTGGCATTGACTACAACCTCTGGGAGGTGGGCCCCAAGTCCGGGG
TGTGAAGATGATCCCCCTGGCATCCACTTCTGTACTACAGCTCTGTGGACAAGCCAATCCCAGGGAG
GTGGGCCCTCGCATGGGCTTCTCCTCAGCCTGAAGCAGCGGGGCTGACAGTCTGCGCTGGAATGCAG
TCCAGGAAGAAGTAGACCTGTCTCCAGCTCCAGAGGCTGAAGTAGAAGCTATGAGAGCCAATCTCCAGA
CCTAGACCAGTTTCTGGGACCTTACCCATATGCTACACTCAAGAAATGGATCTCACTACCAACTTCATC
AGTGAGGCCACCATGGAGAAGCTGCAGCCTGAGAGCAGGAGATCTGCGCCTTCTCAGATGTGCTGCCTG
TGCTTTCCATGAAGCACACCAAGGACAGGGTGGGGCAGAACTGCCCCCTCTGCGGACCGAGTGCAGAAG
CTACCAAGAGGGCCTAGCCCGGCTGCCCGAGATGAGGCCAGGGCTGGGACAGAGATCCGCTTCTCAGAG
TTGCCACTCAGATGTTCCAGCAGGAGCCACACCAGCAGAGATCACCAGGCACAGCATGGACTTGAGCT
ATGCCCTCGAACTGTGCTCAGCAAGCAGTCCCTGGCAACCCCCAGGATGTGCTTGGTGAAGCTCCAGTT
TGCTTGTGCTTCTTGCTGGGCAATGTGTATGAGGCATTTGAGCACTGGAAGCGGCTCCTGAACCTC
CTGTGCTGGTCTGAATCTGCCATGGGGAAGTACCACGCCCTGTACATCAGCCTCATCTCCATCCTGTACC
ACCAGCTTGGTGAGATCCCTGCTGACTTCTTTGTGGACATTGTCTCCAGGACAACCTCCTCACCAGTAC
CTTACAGTTTTCTTTTCTTCTGCTGCAGTATTGCTGTGGAAGCCACCTGAGGAAGAAAGCTGAGAAG
TTCCAAGCCACCTGACTAAGAAGTTCGCTGGGACTTCACTTCAGAGCCAGAGGACTGTGCCCCAGTGG
TGGTGGAGCTCCCCGAGGGCATCGAGACGGCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205989 protein sequence
Red=Cloning site Green=Tags(s)

MSSMQMDPELAKQLFFEGATVVILNMPKGTFFGIDYNSWEVGPKFRGVKMIPPGIHFLYSSVDKANPRE
 VGPRMGFFLSLKQRGLTVLRWNAVQEEVDLSPAPEAEVEAMRANLPDLQDFLGPYPYATLKKWISL TNFI
 SEATMEKLQPE SRQICAFSDVLPVLSMKHTKDRVGNLPLCGTECRSYQEGLARLPEMRPRAGTEIRFSE
 LPTQMFPAGATPAEITRHSMDLSYALETVLSKQFPGNPQDVLGELQFAFVCFLLGNVYEAFEHWKRLNL
 LCRSESAMGKYHALYISLISILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSIAVEATLRKKA EK
 FQAHLTKKFRWDF TSEPDCAPVVVELPEGIETA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026661

ORF Size: 1155 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_026661.1](#), [NM_026661.2](#), [NM_026661.3](#), [NM_026661.4](#), [NP_080937.2](#)

RefSeq Size: 3447 bp

RefSeq ORF: 1155 bp

Locus ID: 68295

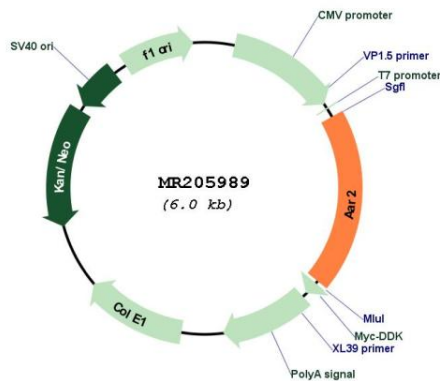
UniProt ID: [Q9D2V5](#)

Cytogenetics: 2 H1

MW: 43.3 kDa

Gene Summary: Component of the U5 snRNP complex that is required for spliceosome assembly and for pre-mRNA splicing.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205989