

## Product datasheet for MR213689

### Aar2 (NM\_001164818) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aar2 (NM_001164818) 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:	>MR213689 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCCATGCAGATGGATCCAGAGTTAGCCAAGCAGCTCTTCTTTGAAGGAGCCACGGTGGTCATTC  
TGAACATGCCAAGGGGACAGAGTTTGGCATTGACTACAACCTCTGGGAGGTGGGCCCCAAGTCCGGGG  
TGTGAAGATGATCCCCCTGGCATCCACTTCTGTACTACAGCTCTGTGGACAAGCCAATCCCAGGGAG  
GTGGGCCCTCGCATGGGCTTCTCCTCAGCCTGAAGCAGCGGGGCTGACAGTCTGCGTGGAAATGCAG  
TCCAGGAAGAAGTAGACCTGTCTCCAGTCCAGAGGCTGAAGTAGAAGCTATGAGAGCCAATCTCCAGA  
CCTAGACCAGTTTCTGGGACCTTACCCATATGCTACACTCAAGAAATGGATCTCACTACCAACTTCATC  
AGTGAGGCCACCATGGAGAAGCTGCAGCCTGAGAGCAGGAGATCTGCGCCTTCTCAGATGTGCTGCCTG  
TGCTTTTCATGAAGCACACCAAGGACAGGGTGGGGCAGAACCTGCCCTCTGCGGACCCGAGTGCAGAAG  
CTACCAAGAGGGCCTAGCCCGGCTGCCCGAGATGAGGCCAGGGCTGGGACAGAGATCCGCTTCTCAGAG  
TTGCCACTCAGATGTTCCAGCAGGAGCCACACCAGCAGAGATCACCAGGCACAGCATGGACTTGAGCT  
ATGCCCTCGAAACTGTGCTCAGCAAGCAGTCCCTGGCAACCCCCAGGATGTGCTTGGTGAAGCTCCAGTT  
TGCTTGTGCTTCTTGCTGGCAATGTGTATGAGGCATTTGAGCACTGGAAGCGGCTCCTGAACCTC  
CTGTGTCGGTCTGAATCGCCATGGGGAAGTACCACGCCCTGTACATCAGCCTCATCTCCATCCTGTACC  
ACCAGCTTGGTGAGATCCCTGCTGACTTCTTTGTGGACATTGTCTCCAGGACAACCTCCTCACCAGTAC  
CTTACAGTTTTTCTTTCTCTGCTGCAGTATTGCTGTGGAAGCCACCTGAGGAAGAAAGCTGAGAAG  
TTCCAAGCCACCTGACTAAGAAGTCCGCTGGGACTTCACTTACAGCCAGAGGACTGTGCCCCAGTGG  
TGGTGGAGCTCCCCGAGGGCATCGAGACGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR213689 protein sequence  
 Red=Cloning site Green=Tags(s)

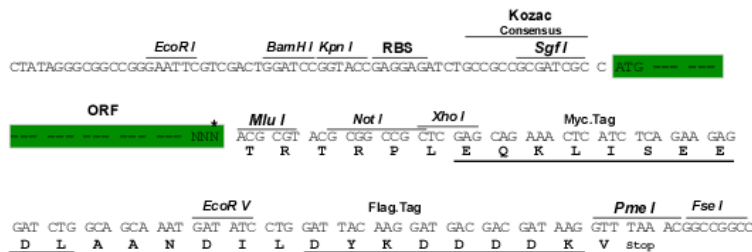
MSSMQMDPELAKQLFFEGATVVILNMPKGTFFGIDYNSWEVGPKFRGVKMIPPGIHFLLYSSVDKANPRE  
 VGPRMGFFLSLKQRGLTVLRWNAVQEEVDLSPAPEAEVEAMRANLPDLQDFLGPYPYATLKKWISL TNFI  
 SEATMEKLQPESRQICAFSDVLPVLFMKHTKDRVGQNLPLCGTECRSYQEGLARLPEMRPRAGTEIRFSE  
 LPTQMFPAGATPAEITRHSMDLSYALETVLSKQFPGNPQDVLGELQFAFVCFLLGNVYEAFEHWKRLNL  
 LCRSESAMGKYHALYISLISILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSIAVEATLRKKAEK  
 FQAHLTKKFRWDFTSEPEDCAPVVVELPEGIETA

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\_001164818

**ORF Size:** 1152 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\\_001164818.1](#), [NP\\_001158290.1](#)

**RefSeq Size:** 3590 bp

**RefSeq ORF:** 1155 bp

**Locus ID:** 68295

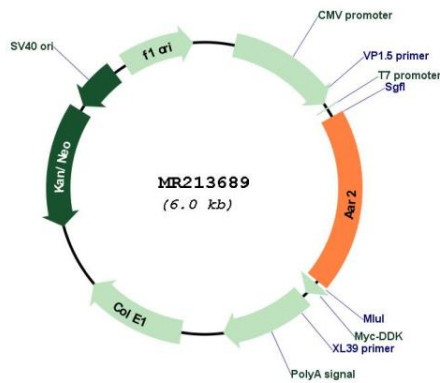
**UniProt ID:** [Q9D2V5](#)

**Cytogenetics:** 2 H1

**MW:** 43.4 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 MR213689