

## Product datasheet for **MR209341**

### **Araf (NM\_009703) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Araf (NM_009703) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Araf
Synonyms:	1200013E08Rik; A-Raf; Araf1; AW495444
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209341 representing NM\_009703  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACCACCACGAGGCCCTCCTGTTAGTGGGCTGAGCCATCTCGGGCAGTTGGCACTGTCAAAGTGT  
 ACCTGCCTAACAAAGCAACGCACAGTGGTACTGTCCGGGAAGGCATGAGTGTCTATGACTCTTTGGACAA  
 GGCCCTGAAGGTGCGGGGTCTCAACCAGGACTGCTGTGGTCTACAGGCTCATCAAAGGAAGAAAGACA  
 GTCACTGCCTGGGACACAGCCATTGCGCCTCTGGATGGTGAAGGCTCATTGTGGAGGCTCTAGAAGATG  
 TGCCACTGACCATGCACAATTTGTACGGAAGACATTCTCAGCCTGGCCTTCTGTGACTTCTGCCTTAA  
 GTTTCTGTTCCATGGATTCCGCTGCCAGACCTGTGGCTACAAGTCCACCAGCATTGTTCTCCAAGGTC  
 CCCACCGTCTGCGTTGACATGAGTACCAACCGCCGACAGTTCTACCACAGCATCCAGGATCTGTCTGGAG  
 GCTCCAGGCAGCAGGAGGCTCCCTCAAATCTCTCTGTGAATGAGCTGCTAACCCCCAGGGTCCCAGCCC  
 CTTTACCAGCAACGTGACCAGGAGCATTCTCATTCCCTGCCCTGCCAATCCCCACTGCAGCGCATC  
 CGCTCCACATCTACTCCTAACGTCCACATGGTCAGCACCACAGCTCCCATGGACTCCAGCCTCATGCAGT  
 TTAAGTCTCAGAGCTTACGACCCGATGCTGCTGGTAGAGGTGGTATGGAGCCCTCGGGGTAGCCCTAG  
 CCCAGCTAGTGTGCTTTCAGGGAGGAAGTCCCCACATTCCAAGTTACCTTCAAGACAGCGGGAGCGGAAG  
 TCCTTGGCAGATGAAAAGAAAAAAGTGAAGAACCTGGGGTACCGGACTCAGGCTATTACTGGGAGGTGC  
 CACCCAGTGAGGTACAGCTGTTGAAGAGGATCGGGACAGGCTCTTTTGGCACTGTGTTTCGGGGGCGTTG  
 GCATGGCGATGTAGCTGTGAAAGTGCTCAAGGTGGCCAACTACCGTGAAGCAGGCCAGGCCCTCAAG  
 AATGAGATGCAGGTGCTCAGGAAGACACGGCATGTCAACATTTGCTGTTTCATGGGTTTCATGACTCGGC  
 CGGGGTTTGCCATCATCACACAGTGGTGTGAGGGTTCAGCCTCTACCACCACCTACATGTGGCTGACAC  
 GCGCTTTGACATGGTCCAGCTCATTGATGTGGCCCGCAGACTGCCAGGGCATGGACTACCTCCAGGCC  
 AAGAACATCATTATCGAGACCTAAAGTCCAACAATATCTTCTTACATGAGGGGCTCACAGTCAAGATTG  
 GTGACTTCGCGCTGGCCACAGTGAAGACACGGTGGAGTGGGGCACAGCCCTAGAGCAGCCCTCAGGGTC  
 TGTGCTATGGATGGCAGCTGAGGTGATCCGTATGCAGGACCCGAACCCCTACAGCTTCCAGTCGGATGTC  
 TATGCCTATGGTGTGTGCTCTATGAGCTCATGACCGGCTCACTGCCCTACAGCCACATTGGCAGCCGTG  
 ACCAGATCATCTTATGGTGGCCGTGGCTATCTGTCTCCGACCTCAGCAAAATCTTCAGTAATTGCC  
 CAAAGCCATGAGGCGCTGCTGACTGACTGCCTCAAGTTCAGCGGGAGGAGCGGCCCTATTTCCCGAG  
 ATTCTGGCCACGATCGAGCTACTGCAGCGGCTACTCCCAAGATTGAGCGGAGTGCCTCCGAACCCCTCT  
 TGCACCGACCCAGGCTGATGAGTTGCCTGCTTGCCTTCTCAGCGCAGCCGCTTTGTGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209341 representing NM\_009703  
 Red=Cloning site Green=Tags(s)

MEPPRPPVSGAEPsRAVGTVKVYLPNKQRTVVTVREGMSVYDSDLKALKVRGLNQDCCVVYRLIKGRKT  
 VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFVSLAFCDCLKFLFHGFRQCQCYKFKHQCSSKV  
 PTVCDMSTNRRQFYHSIQDLGGSRQQEAPSNLSVNEELLTPQGSPFTQQRDQEHFSFPAPANPLQRI  
 RSTSTPNVHMVSTTAPMDSLMQFQAQSFSTDAAGRGGDAPRGSPPASVSSGRKSPHSLPSEQRERK  
 SLADEKKKVKNLGYRDSGYYWEVPPSEVQLLKRIGTGSFGTVFRGRWHDVAVKVLKVAQPTAEQAQAFK  
 NEMQVLRKTRHVNILLFMGMTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGM DYLHA  
 KNIIHRDLKSNNIFLHEGLTVKIGDFGLATVKTRWSGAQPLEQPSGSLVWMAAEVIRMQDPNPYSFQSDV  
 YAYGVVLYELMTGSLPYSHIGSRDQIIFMVGRGYLSPDLKIFSNCPKAMRRLTDLCKFQREERPLFPQ  
 ILATIPELLQRSLPKIERSASEPSLHRTQADELPACLLSAARLVP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_009703

**ORF Size:** 1812 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\\_009703.2](#), [NP\\_033833.1](#)

**RefSeq Size:** 2405 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 11836

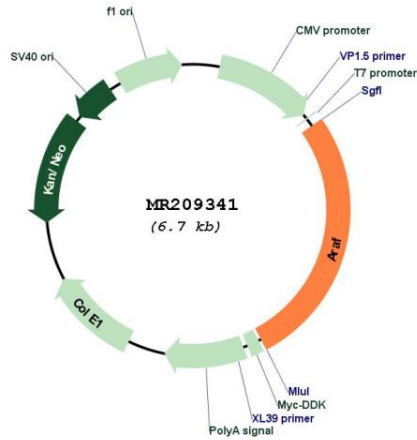
**UniProt ID:** [P04627](#)

**Cytogenetics:** X 16.3 cM

**MW:** 68 kDa

**Gene Summary:** Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. May also regulate the TOR signaling cascade (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209341