

Product datasheet for **RR200318**

Araf (NM_022532) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Araf (NM_022532) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Araf
Synonyms:	Araf1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200318 representing NM_022532
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAACCACCACGAGGCCCTCCTGCTAGTGGGCTGAGCCATCTCGGGCAGTTGGCACTGTCAAAGTGT
 ACCTGCCTAACAAAGCAACGCACAGTGGTACTGTCCGGATGGCATGAGTGTCTATGACTCTTTGGACAA
 GGCCCTCAAGGTGCGGGTCTCAATCAGGACTGCTGTGGTCTACAGACTCATCAAAGGAAGAAAGACA
 GTCACTGCCTGGGACACAGCCATTGCACCTCTGGATGGCGAGGAGCTCATTGTGGAGTCTGGAAGATG
 TGCCACTGACCATGCACAATTTGTACGGAAGACATTCTCAGTTTGGCCTTCTGTGACTTCTGCCTTAA
 GTTTCTGTTCCACGGCTTCGCTGCCAAACCTGTGGCTACAAGTCCACCAGCATTGTTCTCCAAGGTC
 CCCACGGTCTGCGTTGACATGAGTACCAACCGCCGACAGTTCTACCACAGCATCCAGGATTTGTCTGGAG
 GCTCCAGGCAGCAGGAGTTCCCTCAAATCTCTCTGTGAATGAGCTGCTAACCCCCAGGGTCCCAGTCC
 CTTTACCAGCAACGTGACCAGGAGCATTCTCCTTCCCTGCCCTGCCAATCCCCACTGCAGCGCATC
 CGCTCCACATCTACTCCTAACGTCCACATGGTCAGCACCACAGCTCCCATGGACTCCAGCCTCATGCAGT
 TTAAGTCTCAGAGCTTACGACCCGATGCTGCTGGTAGAGGTGGTATGGAGCTCCTCGGGGTAGCCCTAG
 CCCAGCTAGTGTGCTTTCAGGGAGGAAGTCCCCACATTCCAAGTTACCTGCAGAACAGCGGGAACGGAAG
 TCCTTGGCAGATGAAAAGAAAAAAGTGAAGAACCTGGGGTACCGGACTCAGGCTATTACTGGGAGGTGC
 CACCCAGTGAGGTACAGCTGTTGAAGAGGATCGGGACAGGCTCTTTTGGCACTGTGTTTCGGGGGCGTTG
 GCATGGCGATGTAGCTGTGAAAGTGCTCAAGGTGGCCAACTACCGTGAGCAGGCCAGGCCCTCAAG
 AATGAGATGCAGGTGCTCAGGAAGACACGACATGTCAACATTTTGCTGTTTATGGGTTTCATGACTCGGC
 CAGGGTTTGCCATCATCACACAGTGGTGTGAGGGTTCCAGCCTTACCACCACCTACATGTGGCTGACAC
 CGGCTTTGACATGGTCCAGCTCATTGATGTGGCCCGCAGACTGCCAGGGCATGGACTACTCCACGCC
 AAGAACATCATTACCGAGACCTAAAGTCCAACAATATCTTCTACATGAGGGGCTCACAGTCAAGATTG
 GTGACTTCGCGCTGGCCACAGTGAAGACACGATGGAGTGGGGCCAGCCCTTAGAGCAGCCCTCAGGGTC
 TGTGCTGTGGATGGCAGCTGAGGTGATCCGAATGCAGGACCCGAACCCCTACAGCTTCCAGTCGGATGTC
 TATGCCTATGGTGTGTGCTCTATGAGCTTATGACCGGCTCACTGCCCTACAGCCACATTGGCAGCCGTG
 ACCAGATCATCTTATGGTGGTCTGCTGCTATCTGTCTCCGGACCTCAGCAAAATCTTCAGTAATTGCC
 CAAAGCCATGAGGCGCTTGTGACTGACTGCCTCAAGTCCAGCGGGAGGAGCGGCTCTATTTCCCGAG
 ATTCTGGCCACGATCGAGCTGCTGCAGCGGTCACTCCCAAGATTGAGCGGAGTGCCTCCGAACCTCCT
 TGCACCGTACCCAGGCTGATGAGTTGCCTGCCTGCCTTCTCAGCGCAGCCCGCTTGTGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200318 representing NM_022532
 Red=Cloning site Green=Tags(s)

MEPPRPPASGAEPSRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLKALKVRLNQDCCVVYRLIKGRKT
 VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFVSLAFCDCLKFLFHGFRQCCTGKFKHQCSSKV
 PTVCDVDMSTNRRQFYHSIQDL SGGSRQQEVPSNLVSNELLTPQGPSPFTQQRDQEHFSFPANPPLQRI
 RSTSTPNVHMVSTTAPMDSMLQFTAQSFSTDAAGRGGDGAPRGSPSPASVSSGRKSPHKLPAEQRERK
 SLADEKKKVKNLGYRDSGYWEVPPSEVQLLKRIGTGSFGTVFRGRWHDVAVKVLKVAQPTAEQAQAFK
 NEMQVLRKTRHVNILLFMGMTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGM DYLHA
 KNI IHRDLKSNINIFLHEGLTVKIGDFLATVKTRWGAQPLEQPSGSVLWMAAEVIRMQDPNPYSFQSDV
 YAYGVVLYELMTGSLPYSHIGSRDQIIFMVGRGYLSPDLKIFSNCPKAMRRLTDLCKFQREERPLFPQ
 ILATIPELLQRSLPKIERSASEPSLHRTQADELPACLLSAARLVP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

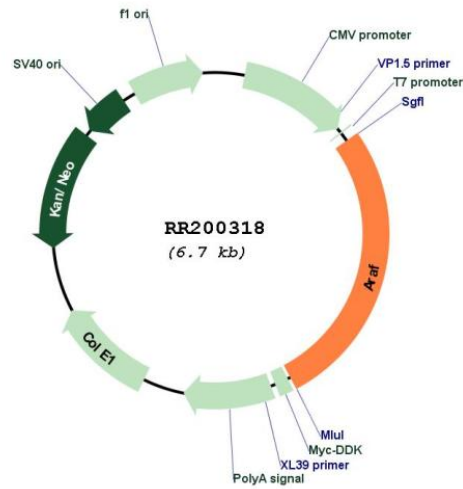
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022532

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:	<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_022532.2 , NP_071977.1
RefSeq Size:	2350 bp
RefSeq ORF:	1815 bp
Locus ID:	64363
UniProt ID:	P14056
Cytogenetics:	Xq11
MW:	67.6 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]