

Product datasheet for **RC234556**

A RAF (ARAF) (NM_001256196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A RAF (ARAF) (NM_001256196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A RAF
Synonyms:	A-RAF; ARAF1; PKS2; RAFA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234556 representing NM_001256196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCACCACGGGGCCCCCTGCCAATGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTAT
 ACCTGCCCAACAAGCAACGCACGGTGGTACTGTCCGGGATGGCATGAGTGTCTACGACTCTCTAGACAA
 GGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGGTCTACCGACTCATCAAGGGACGAAAGACG
 GTCACCTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGAGCTCATTGTCGAGGTCCTTGAAGATG
 TCCCGCTGACCATGCACAATTTGTACGGAAGACCTTCTCAGCCTGGCGTTCTGTGACTTCTGCCTTAA
 GTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTCCACCAGCATTGTTCTCCAAGGTC
 CCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGTTCTACCACAGTGTCCAGGATT
 TGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCCCAGGG
 TCCCAGCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCTA
 CAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACC
 TCATCCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCC
 CCGGGGAGCCCCAGCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCCACATTCCAAGTACCAGCAGAG
 CAGCGGAGCGGAAGTCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCT
 ATTACTGGGAGGTACCACCCAGTGAAGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGT
 GTTTCGAGGGCGGTGGCATGGCGATGTGGCCGTGAAGGTGCTCAAGGTGTCCAGCCACAGCTGAGCAG
 GCCCAGGCTTCAAGAAATGAGATGCAGGTGCTCAGGAAGACCGCATGTCAACATCTTGCTGTTTATGG
 GCTTCATGACCCGGCCGGGATTTGCCATCATCACACAGTGGTGTGAGGGCTCCAGCCTCATCCATCACT
 GCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCATCGACGTGGCCGGCAGACTGCCCAGGGCATG
 GACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTCTAACAAACATCTTCTACATGAGGGC
 TCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATGGAGCGGGGCCAGCCCTTGA
 GCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGACCCGAACCCCTACAGC
 TTCCAGTCAGACGTCTATGCCTACGGGTTGTGCTCTACGAGCTTATGACTGGCTCACTGCCTTACAGCC
 ACATTGGTGCCGTGACCAGATTATCTTTATGGTGGCCGTGGCTATCTGTCCCCGGACCTCAGCAAAAT
 CTCCAGCAACTGCCCAAGGCCATGCGGCCTGCTGTCTGACTGCCTCAAGTTCAGCGGGAGGAGCGG
 CCCCTCTCCCCAGATCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTG
 CCTCGGAACCTCCTTGACCCGACCCAGGCCGATGAGTTGCCTGCCTACTCAGCGCAGCCCGCT
 TGTGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234556 representing NM_001256196
 Red=Cloning site Green=Tags(s)

MEPPRPPANGAEPsRAVGTvkVYLPnkQRTVVTVRDgMSVYDslDKALKVrGLNqDCCVvYrLIkGRkT
 VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFfSLAFCDfCLkFLFHGFRCQTCgykFHqHcSSkV
 PTVcVDMSTNRQqPSRFYHSVQDLsGGSrQHEAPsNRPLNELLTPQgPSpRTqHCDPEHFfPpANAPL
 QRIRSTSTPNVHMVSTTAPMDSNLIQLTGQSFSTDAAGSRGSDGTPRGSPSPASVSSGRKSPHskSPAE
 QRERKSLADdkkKvKnlGYRDSgyYwEVPpSEVQLLKRIgTGSFGTVFRGRWHDVAVkVlKvSQTAEQ
 AQAFKNEMQVLRKTRHVNILLFMGMTRPGFAIITQWCEGSSLYHHLHVADTRFDmVQLIDVARQTAQGM
 DYlHAKNIiHRDLKsNNIFLHEGLTVKIGDFLATVKTWsgAQPLEQPSGSVLWMAAEVIRMQDPNPYS
 FQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMVGRYLSPDLKISSNCPKAMRRLSDCLKfQREER
 PLFPQILATIELLQRSLPKIERSASEPSLHRTQADELPAclLSAARLVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKv

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256196

ORF Size: 1827 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_001256196.1](#), [NP_001243125.1](#)

RefSeq Size: 2571 bp

RefSeq ORF: 1830 bp

Locus ID: 369

UniProt ID: [P10398](#)

Cytogenetics: Xp11.3

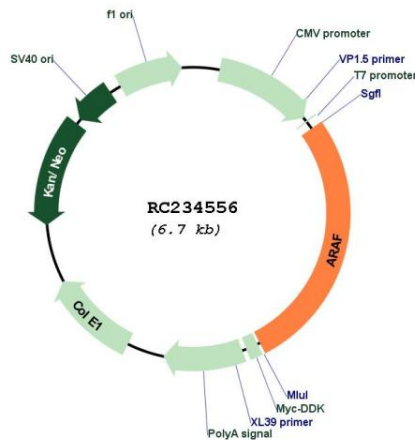
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Bladder cancer, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Glioma, Insulin signaling pathway, Long-term depression, Long-term potentiation, Melanoma, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Vascular smooth muscle contraction

MW: 68.4 kDa

Gene Summary: This proto-oncogene belongs to the RAF subfamily of the Ser/Thr protein kinase family, and maybe involved in cell growth and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2012]

Product images:



Circular map for RC234556