

Product datasheet for **RG232019**

A RAF (ARAF) (NM_001256197) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: A RAF (ARAF) (NM_001256197) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ARAF
Synonyms: A-RAF; ARAF1; PKS2; RAFA1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232019 representing NM_001256197
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCACCACGGGGCCCCCTGCCAATGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTAT
 ACCTGCCCAACAAGCAACGCACGGTGGTACTGTCCGGGATGGCATGAGTGTCTACGACTCTCTAGACAA
 GGCCCTGAAGGTGCGGGTCTAAATCAGGACTGCTGTGGTCTACCGACTCATCAAGGGACGAAAGACG
 GTCACTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGAGCTCATTGTCGAGGTCCTTGAAGATG
 TCCCGCTGACCATGCACAATTTGTACGGAAGACCTTCTCAGCCTGGCCTTCTGTGACTTCTGCCTTAA
 GTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTCCACCAGCATTGTTCCCTCAAAGGTC
 CCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGTTCTACCACAGTGTCCAGGATTTGTCCGGAG
 GCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCCCAGGGTCCCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232019 representing NM_001256197
 Red=Cloning site Green=Tags(s)

MEPPRPPANGAEPsRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLKALKVYRGLNQDCCVVYRLIKGRKT
 VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFVSLAFCDCLKFLFHGFRCQTCGYKFHQHSSKV
 PTVCVDMSTNRQQFYHVSVDLSGGSRQHEAPSNRPLNELLTPQGPR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

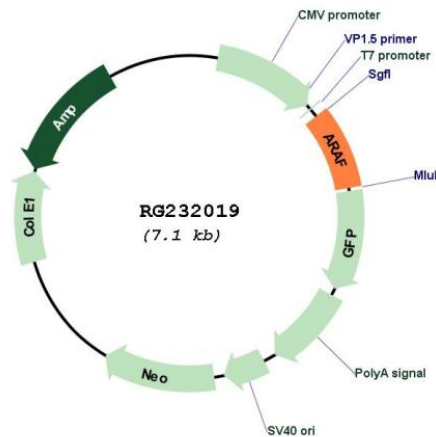


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001256197

ORF Size: 558 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:	<u>NM_001256197.1</u> , <u>NP_001243126.1</u>
RefSeq Size:	1408 bp
RefSeq ORF:	561 bp
Locus ID:	369
UniProt ID:	<u>P10398</u>
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
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]