

Product datasheet for **RG234556**

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:	TurboGFP
Symbol:	A RAF
Synonyms:	A-RAF; ARAF1; PKS2; RAFA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234556 representing NM_001256196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCCACCACGGGGCCCCCTGCCAATGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTAT
 ACCTGCCCAACAAGCAACGCACGGTGGTACTGTCCGGGATGGCATGAGTGTCTACGACTCTCTAGACAA
 GGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGGTCTACCGACTCATCAAGGGACGAAAGACG
 GTCACCTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGAGCTCATTGTCGAGGTCCTTGAAGATG
 TCCCGCTGACCATGCACAATTTGTACGGAAGACCTTCTCAGCCTGGCGTTCTGTGACTTCTGCCTTAA
 GTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTCCACCAGCATTGTTCTCCAAGGTC
 CCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAGTGTCCAGGATT
 TGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCCCAGGG
 TCCCAGCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCTA
 CAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACC
 TCATCCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCC
 CCGGGGAGCCCCAGCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCCACATTCCAAGTACCAGCAGAG
 CAGCGGAGCGGAAGTCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCT
 ATTACTGGGAGGTACCACCCAGTGAAGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGT
 GTTTCGAGGGCGGTGGCATGGCGATGTGGCCGTGAAGGTGCTCAAGGTGTCCAGCCACAGCTGAGCAG
 GCCCAGGCTTCAAGAAATGAGATGCAGGTGCTCAGGAAGACCGCATGTCAACATCTTGTGTTTATGG
 GCTTACGACCCGGCCGGGATTTGCCATCATCACACAGTGGTGTGAGGGCTCCAGCCTCATCCACTACCT
 GCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCATCGACGTGGCCGGCAGACTGCCCAGGGCATG
 GACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTCTAACAAACATCTTCTACATGAGGGC
 TCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATGGAGCGGGGCCAGCCCTTGA
 GCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGACCCGAACCCCTACAGC
 TTCCAGTCAGACGTCTATGCCTACGGGTTGTGCTCTACGAGCTTATGACTGGCTCACTGCCTTACAGCC
 ACATTGGTGCCTGACCAGATTATCTTTATGGTGGCCGTGGCTATCTGTCCCCGACCTCAGCAAAAT
 CTCCAGCAACTGCCCAAGGCCATGCGGCGCTGCTGTCTGACTGCCTCAAGTTCAGCGGGAGGAGCGG
 CCCCTTCCCCAGATCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTG
 CCTCGGAACCTCCTTGACCCGACCCAGGCCGATGAGTTGCCTGCCTACTCAGCGCAGCCCGCT
 TGTGCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234556 representing NM_001256196
 Red=Cloning site Green=Tags(s)

MEPPRGPPANGAEPsRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLKDALKVRLNQDCCVVYRLIKGRKT
 VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFVSLAFCDCLKFLFHGFRCQTCGYKFHQHSSKV
 PTVCVDMSTNRQQPSRFYHSVQDLSSGSRQHEAPSNRPLNELLTPQGPSRTQHCDPEHFPPAPANAPL
 QRIRSTSTPNVHMVSTTAPMDSNLIQLTGQSFSTDAAGSRGSDGTPRGSPSPASVSSGRKSPHSPAE
 QRERKSLADKKKVKNLGYRDSGYWVPPSEVQLLKRIIGTGSFGTVFRGRWHDVAVKVLKVSQPTAEQ
 AQAFKNEMQVLRKTRHVNILLFMGMTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGM
 DYLAHAKNI IHRDLKSNIFLHEGLTVKIGDFLATVKTRWGAQPLEQPSGSVLMMAAEVIRMQDPNPYS
 FQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMVGRGYLSPDLKISSNCPKAMRRLSDCLKFQREER
 PLFPQILATIPELLQRSLPKIERSASEPSLHRTQADELPACLLSAARLVP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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](#)

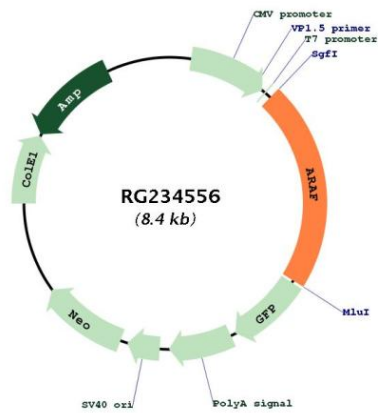
Cytogenetics: Xp11.3

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

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 RG234556