

## Product datasheet for **RG200737**

### A RAF (ARAF) (NM\_001654) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	A RAF (ARAF) (NM_001654) 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:**

>RG200737 representing NM\_001654  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCACCACGGGGCCCCCTGCCAATGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTAT  
 ACCTGCCCAACAAGCAACGCACGGTGGTACTGTCCGGGATGGCATGAGTGTCTACGACTCTCTAGACAA  
 GGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGGTCTACCGACTCATCAAGGGACGAAAGACG  
 GTCACTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGAGCTCATTGTCGAGGTCCTTGAAGATG  
 TCCCGCTGACCATGCACAATTTGTACGGAAGACCTTCTCAGCCTGGCGTTCTGTGACTTCTGCCTTAA  
 GTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTCCACCAGCATTGTTCTCCAAGGTC  
 CCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGTTCTACCACAGTGTCCAGGATTTGTCGGAG  
 GCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCTGAATGAGTTGCTAACCCCCAGGGTCCCAGCCC  
 CCGCACCCAGCACTGTGACCCGGAGCACTTCCCTTCCCTGCCAGCCAATGCCCCCTACAGCGCATC  
 CGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCATGGACTCCAACCTCATCCAGC  
 TCACTGGCCAGAGTTTACGACTGATGCTGCCGTAAGTAGAGGAGGTAGTGATGGAACCCCCGGGGAG  
 CCCCAGCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCCACATTCGAAGTCAACAGCAGAGCAGCGCGAG  
 CGGAAGTCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGG  
 AGGTACCACCCAGTGAAGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTCGAGG  
 GCGGTGGCATGGCGATGTGGCCGTGAAGGTGCTCAAGGTGTCAGCCACAGCTGAGCAGGCCCAGGCT  
 TTCAAGAATGAGATGCAGGTGCTCAGGAAGACGCGACATGTCAACATCTGCTGTTTATGGGCTTCATGA  
 CCCGGCCGGGATTTGCCATCATCACAGTGGTGTGAGGGCTCCAGCCTTACCACACCTGCATGTGGC  
 CGACACACGCTTCGACATGGTCCAGCTCATCGAGTGGCCGGCAGACTGCCAGGGCATGGACTACCTC  
 CATGCCAAGAACATCATCCACCGAGATCTCAAGTCTAACAAACATCTTCTACATGAGGGGCTCACGGTGA  
 AGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATGGAGCGGGGCCAGCCCTTGGAGCAGCCCTC  
 AGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGACCCGAACCCCTACAGCTTCCAGTCA  
 GACGTCTATGCCTACGGGTTGTGCTCTACGAGCTTATGACTGGCTCACTGCCTTACAGCCACATTTGGCT  
 GCCGTGACCAGATTATCTTTATGGTGGCCGTGGCTATCTGTCCCGGACCTCAGCAAAATCTCCAGCAA  
 CTGCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTCCAGCGGGAGGAGCGGCCCTCTTC  
 CCCAGATCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTCGGAAC  
 CCTCTTGACCCGACCCAGGCCGATGAGTTGCCTGCCTACTCAGCGCAGCCCGCCTTGTGCCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200737 representing NM\_001654  
 Red=Cloning site Green=Tags(s)

MEPPRGPPANGAEPsRAVGTVKVYLPNQRTVVTVRDGMSVYDSLKALKVRGLNQDCCVVYRLIKGRKT  
 VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFVSLAFCDCLKFLFHGFRCQTCGYKFHQHCSSKV  
 PTVCDMSTNRQQFYHVSQDLGGSRQHEAPSNRPLNELLTPQGSPRTQHCDPEHFFPPAPANAPLQRI  
 RSTSTPNVHMVSTTAPMDSNLIQLTGQSFSTDAAGSRGSDGTPRGSPSPASVSSGRKSPHSKSPAEQRE  
 RKSLADDDKKVKNLGYRDSGYYVEVPPSEVQLLKRIGTGSFGTVFRGRWHDVAVKVLKVSQPTAEQAQA  
 FKNEMQVLRKTRHVNILLFMGMTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGM DYL  
 HAKNIIHRDLKSNNIFLHEGLTVKIGDFGLATVKTRWSGAQPLEQPSGSLVWMAAEVIRMQDPNPYSFQS  
 DYYAYGVVLYELMTGSLPYSHIGCRDQIIFMVGRGYLSPDLKISSNCPKAMRRLSDCLKFQREERPLF  
 PQILATIPELLQRSLPKIERSASEPSLHRTQADELPACLLSAARLVP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001654

**ORF Size:** 1818 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\\_001654.5](#)

**RefSeq Size:** 2466 bp

**RefSeq ORF:** 1821 bp

**Locus ID:** 369

**UniProt ID:** [P10398](#)

**Cytogenetics:** Xp11.3

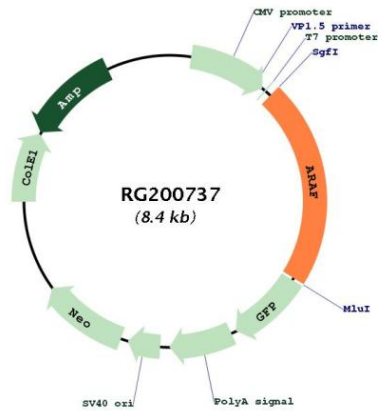
**Domains:** pkinase, TyrKc, DAG\_PE-bind, S\_TKc, RBD

**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 RG200737