

Product datasheet for **MG226088**

Araf (NM_001159645) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Araf (NM_001159645) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Araf
Synonyms: 1200013E08Rik; A-Raf; Araf1; AW495444
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226088 representing NM_001159645
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCACCACGAGGCCCTCTGTTAGTGGGGCTGAGCCATCTCGGGCAGTTGGCACTGTCAAAGTGT
ACCTGCCTAACAAAGCAACGCACAGTGGTACTGTCCGGGAAGGCATGAGTGTCTATGACTCTTTGGACAA
GGCCCTGAAGGTGCGGGTCTCAACCAGGACTGCTGTGGTCTACAGGCTCATCAAAGGAAGAAAGACA
GTCACTGCCTGGGACACAGCCATTGCGCCTCTGGATGGTGGAGAGCTCATTGTGGAGTCTAGAAGATG
TGCCACTGACCATGCACAATTTGTACGGAAGACATTCTCAGCCTGGCCTTCTGTGACTTCTGCCTTAA
GTTTCTGTTCCATGGATTCCGCTGCCAGACCTGTGGCTACAAGTTCACCAAGCATTGTTCCCAAGGTC
CCCACCGTCTGCGTTGACATGAGTACCAACCGCCGACAGTTCTACCACAGCATCCAGGATCTGTCTGGAG
GCTCCAGGCAGCAGGAGGCTCCCTCAAATCTCTGTGAATGAGCTGCTAACCCCCAGGGTCCCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226088 representing NM_001159645
Red=Cloning site Green=Tags(s)

MEPPRPPVSGAEPsRAVGTVKVYLPNKQRTVVTVREGMSVYDSLKALKVYRGLNQDCCVVYRLIKGRKT
VTAWDTAIAPLDGEELIVEVLEDVPLTMHNFVRKTFVSLAFCDFCLKFLFHGFRCQTCGYKFHQHSSKV
PTVCVDMSTNRRQFYHSIQDLSGGSRQQEAPSNLSVNELLTPQGPR

TRTRPLE - GFP Tag - V

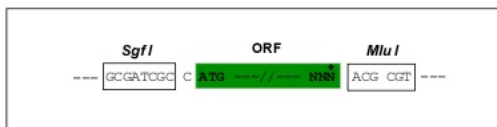
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:

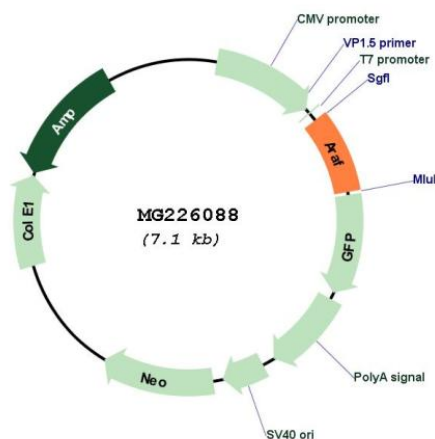


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      EcoR I   BamH I Kpn I   RBS   Kozac Consensus   Sgf I   Asc I
CTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

      Hind III   Nhe I   Rsr II   Mlu I   Not I   Xho I   GFP Tag
CAAGCTTAACTAGCTAGCGGACCG   ACG CGT   ACG CGG   CCG CTC GAG   ATG GAG AGC GAC  - - - - -
      T R T R P L E   M E S D   - - - - -

      Pme I   Fse I
- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT
- - E E R V Stop
```

Plasmid Map:



ACCN: NM_001159645

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_001159645.1</u> , <u>NP_001153117.1</u>
RefSeq Size:	1571 bp
RefSeq ORF:	561 bp
Locus ID:	11836
UniProt ID:	<u>P04627</u>
Cytogenetics:	X 16.3 cM
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]