

## Product datasheet for **RG204603**

### AP2 alpha (TFAP2A) (NM\_001032280) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 alpha (TFAP2A) (NM_001032280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP2 alpha
Synonyms:	AP-2; AP-2alpha; AP2TF; BOFS; TFAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204603 representing NM_001032280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTAGTTCACAGTTTTTCAGCCATGGACCGTACGACGGCACCAGCAACGGGACGGCACGGTTGCCCC  
AGCTGGGCACTGTAGGTCAATCTCCCTACACGAGCGCCCCGCGTGTCCCACACCCCAATGCCGACTT  
CCAGCCCCATACTTCCCCCACCCTACCAGCCTATCTACCCCCAGTCGCAAGATCCTTACTCCCACGTC  
AACGACCCCTACAGCCTGAACCCCTGCACGCCAGCCGAGCCGAGCACCAGGCTGGCCGGCCAGA  
GGCAGAGCCAGGAGTCTGGGCTCCTGCACACGCCGGGGCTGCCTCACCAGCTGTGGGCTGGATCC  
TCGCAGGGACTACAGGCGGCACGAGGACCTCCTGCACGGCCACACGCGCTCAGCTCAGGACTCGGAGAC  
CTCTCGATCCACTCCTTACCTCACGCCATCGAGGAGGTCCCGCATGTAGAAGACCCGGGTATTAACATCC  
CAGATCAAAGTGAATTAAGAAAGGCCCGTGTCCCTGTCCAAGTCCAACAGCAATGCCGCTCCTCCGCAT  
CCCTATTAACAAGGACAACCTCTTCGGCGGCGTGGTGAACCCCAACGAAGTCTTCTGTTCAGTTCGGGT  
CGCCTCTCGTCTCAGCTCCACCTCGAAGTACAAGTACAGGTGCGGTGGCGGAAGTGCAGCGGCGGCTCAC  
CACCCGAGTGTCTCAACGCGTCTGCTGGGCGGAGTGTCCGGAGGGCGAAGTCAAAAATGGAGGAAG  
ATCTTTAAGAGAAAACTGGACAAAATAGGATTAATCTGCCTGCAGGGAGACGTAAGCTGCCAACGTT  
ACCTGCTCACATCACTAGTAGAGGGAGAAGCTGCCACCTAGCCAGGGACTTTGGGTACGTGTGGGAAA  
CCGAATTTCTGCAAAGCAGTAGCTGAATTTCTCAACCGACAACATTCGATCCCAATGAGCAAGTGAC  
AAGAAAAAACATGCTCCTGGCTACAAAACAGATATGCAAAGATTACCCGACCTGCTGGCTCAGGACCGA  
TCTCCCCTGGGAACTCACGGCCCAACCCATCCTGGAGCCCGGCATCCAGAGCTGCTTGACCCACTTCA  
ACCTCATCTCCCAGGCTTCGGCAGCCCCGCGTGTGTGCCGCGTACGGCCCTGCAGAACTATCTCAC  
CGAGGCCCTCAAGGCCATGGACAAAATGTACCTCAGCAACAACCCCAATAGCCACACGGACAACAACGCC  
AAAAGCAGTGACAAAGAGGAGAAGCACAGAAAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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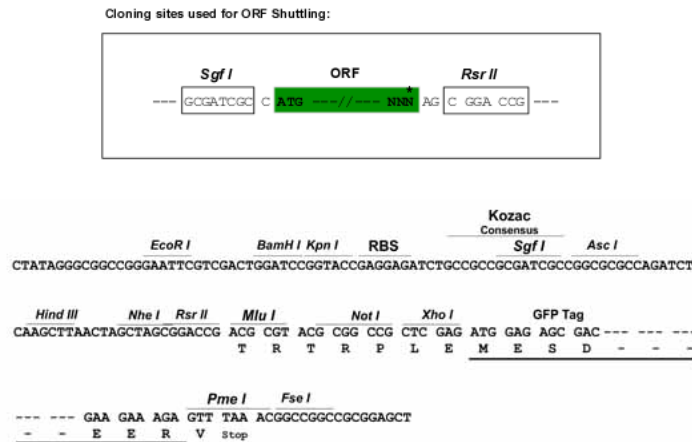
**Protein Sequence:** >RG204603 representing NM\_001032280  
Red=Cloning site Green=Tags(s)

MLVHSFSAMDRHDGTSNGTARLPQLGTVGQSPYTSAPPLSHTPNADFQPPYFPPPYQPIYPQSQDPYSHV  
 NDPYSLNPLHAQPQPQHPGWPGQRQSQESGLLHHRGLPHQLSGLDPRRDYRRHEDLLHGPHALSSGLGD  
 LSIHSLPHAIEEVPHVEDPGINIPDQTVIKKGPVSLSKSNSNAVSAIPINKDNLFGGVVNPNEVFCVPG  
 RLSLLSSTSKEYKVTVAEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLREKLDKIGLNLPAGRRKAANV  
 TLLTSLVEGEAVHLARDFGYVCEFEFPAKAVAEFLNRQHSDPNEQVTRKNMLLATKQICKEFTDLLAQDR  
 SPLGNSRNPPILEPGIQSCLTHFNLI SHGFGSPAVCAAVTALQNYL TEALKAMDKMYLSNNPNSHTDNNA  
 KSSDKKEEKHRK

SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_001032280

**ORF Size:** 1293 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\\_001032280.1](#), [NP\\_001027451.1](#)

**RefSeq Size:** 3808 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 7020

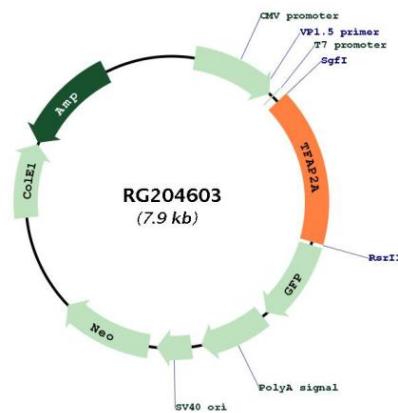
**UniProt ID:** [P05549](#)

**Cytogenetics:** 6p24.3

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The protein encoded by this gene is a transcription factor that binds the consensus sequence 5'-GCCNNNGGC-3'. The encoded protein functions as either a homodimer or as a heterodimer with similar family members. This protein activates the transcription of some genes while inhibiting the transcription of others. Defects in this gene are a cause of branchiooculofacial syndrome (BOFS). Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2009]

## Product images:



Circular map for RG204603