

## Product datasheet for **RG208665**

### AP2 gamma (TFAP2C) (NM\_003222) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 gamma (TFAP2C) (NM_003222) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP2 gamma
Synonyms:	AP2-GAMMA; ERF1; hAP-2g; TFAP2G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208665 representing NM\_003222  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTGTGAAAAATAACCGATAATGTCAAGTACGAAGAGGACTGCGAGGATCGCCACGACGGGAGCAGCA  
 ATGGGAATCCGCGGGTCCCCACCTCTCCTCCGCGGGCAGCACCTCTACAGCCCCGCGCCACCCCTCTC  
 CCACACTGGAGTCGCCGAATATCAGCCGCCACCCTACTTTCCCCCTCCCTACCAGCAGCTGGCCTACTCC  
 CAGTCGGCCGACCCTACTCGCATCTGGGGGAAGCGTACGCCCGCCCATCAACCCCTGCACCAGCCGG  
 CGCCACAGGCAGCCAGCAGCAGCCTGGCCCGGCCAGAGCCAGGAGGGAGCGGGGCTGCCCTCGCA  
 CCACGGGCGCCCGCCGGCTACTGCCCCACCTCTCCGGGCTGGAGGCGGGCGCGGTGAGCGCCCGCAGG  
 GATGCCTACCGCCGCTCCGACCTGCTGCTGCCACGCACACGCCCTGGATGCCGCGGCTGGCCGAGA  
 ACCTGGGGCTCCACGACATGCCTCACCAGATGGACGAGGTGCAGAATGTCGACGACCAGCACCTGTTGCT  
 GCACGATCAGACAGTCATTTCGAAAGTCCCATTTCATGACCAAGAACCCTCTGAACCTCCCCTGTCAG  
 AAGGAGCTGGTGGGGCCGTAATGAACCCCACTGAGGTCTTCTGCTCAGTCCCTGGAAGATTGTCGCTCC  
 TCAGCTCTACGTCTAAATACAAAGTGACAGTGGCTGAAGTACAGAGGCGACTGTCCCCACCTGAATGCTT  
 AAATGCCTCGTTACTGGGAGGTGTTCTCAGAAGAGCCAAATCGAAAAATGGAGGCCGGTCTTTCGCGGAG  
 AAGTTGGACAAGATTGGGTTGAATCTTCCGGCCGGGAGGCGGAAAGCCGCTCATGTGACTCTCCTGACAT  
 CCTTAGTAGAAGGTGAAGCTGTTTCAATTTGGCTAGGGACTTTGCCTATGCTGTGAAGCCGAATTTCTAG  
 TAAACCAAGTGGCAGAATATTTAACAGACCTCATCTTGGAGGACGAAATGAGATGGCAGCTAGGAAGAAC  
 ATGCTATTGGCGGCCAGCAACTGTGTAAGAATTCACAGAATCTCAGCCAAGACCGGACACCCCATG  
 GGACCAAGCAGGCTCGCCCAAGTCTTGGAGACGAACATACAGAATGCTTGTCTCATTTCAGCCTGATTAC  
 CCACGGGTTTGGCAGCCAGGCCATCTGTGCCCGGGTGTCTGCCCTGCAGAACTACATCAAAGAAGCCCTG  
 ATTGTCATAGACAAATCTACATGAACCTGGAGACCAGAGTCCAGCTGATTCTAACAAAACCTGGAGA  
 AAATGGAGAAACACAGGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208665 representing NM\_003222  
 Red=Cloning site Green=Tags(s)

MLWKITDNVYEEDECEDRHDGSSNGNPRVPHLSSAGQHL YSPAPPLSHTGVAEYQPPPYFPPPYQQLAYS  
 QSADPYSHLGEAYAAAINPLHQPAPTGSQQAWPGRQSQEGAPLPSHHGRPAGLLPHLSGLEAGAVSARR  
 DAYRRSDLLLPHAHALDAAGLAENLGLHDMPHQMDEVQNVDDQHLLLDQTVIRKGPISMTKNPLNLP  
 KELVGAVMNPTEVFCVPGRLSLLSSTSKYKVTVAEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLRE  
 KLDKIGLNLPAGRRKAAHVTLTSLVEGEAVHLARDFAYVCEAEFSPKPVAEYLTRPHLGGRNEMAARKN  
 MLLAAQQLCKEFTLLSQDRTPHGT SRLAPVLETNIQNCLSHFLITHFGFSQAICAAVALQNYIKEAL  
 IVIDKSYMNPQDQSPADSNKTLEKMEKHKR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_003222

**ORF Size:** 1350 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

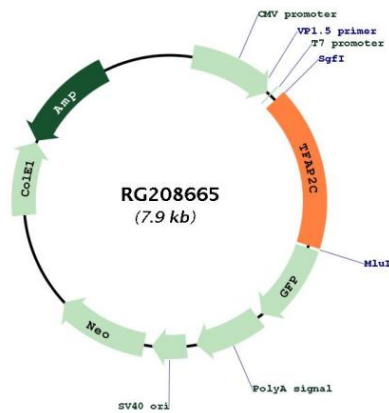
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_003222.4](#)

RefSeq Size:	2895 bp
RefSeq ORF:	1353 bp
Locus ID:	7022
UniProt ID:	<a href="#">Q92754</a>
Cytogenetics:	20q13.31
Domains:	TF_AP-2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	The protein encoded by this gene is a sequence-specific DNA-binding transcription factor involved in the activation of several developmental genes. The encoded protein can act as either a homodimer or heterodimer with other family members and is induced during retinoic acid-mediated differentiation. It plays a role in the development of the eyes, face, body wall, limbs, and neural tube. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG208665