

Product datasheet for **RG222123**

AP2 alpha (TFAP2A) (NM_003220) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 alpha (TFAP2A) (NM_003220) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFAP2A
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:	>RG222123 representing NM_003220 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTGGAAATTGACGGATAATATCAAGTACGAGGACTGCGAGGACCGTCACGACGGCACCAGCAACG
GGACGGCAGGTTGCCCCAGCTGGGCACGTAGGTCAATCTCCCTACACGAGCGCCCCGCCGCTGTCCCA
CACCCCAATGCCGACTCCAGCCCCATACTTCCCCCACCCTACCAGCCTATCTACCCCAAGTCGCAA
GATCCTTACTCCACGTCAACGACCCCTACAGCCTGAACCCCTGCACGCCAGCCGAGCCGAGCACC
CAGGCTGGCCCGCCAGAGGCAGAGCCAGGAGTCTGGGCTCCTGCACACGCCGGGGTGCCTCACCA
GCTGTCCGGCCTGGATCCTCGCAGGACTACAGGCGGCACGAGGACCTCCTGCACGGCCACACGGCTC
AGCTCAGGACTCGGAGACCTCTCGATCCACTCCTTACCTCACGCCATCGAGGAGGTCGCCATGTAGAAG
ACCCGGGTATTAACATCCAGATCAAATGTAATTAAGAAAGGCCCGTGTCCCTGTCCAAGTCCAACAG
CAATGCCGTCTCCGCCATCCCTATTAACAAGGACAACCTCTCGCGCGCTGGTGAACCCCAACGAATC
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CGTAAAGCTGCCAACGTTACCCGTCTCACATCACTAGTAGAGGGAGAAGCTGTCCACCTAGCCAGGGAG
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GCTGCTTGACCCACTTCAACCTCATCTCCACGGCTTCGGCAGCCCGCGGTGTGTGCCCGGTACGGC
CCTGCAGAACTATCTACCGAGGCCCTCAAGGCCATGGACAAAATGTACCTCAGCAACAACCCCAACAGC
CACACGGACAACAACGCCAAAAGCAGTGACAAAGAGGAGAAGCACAGAAAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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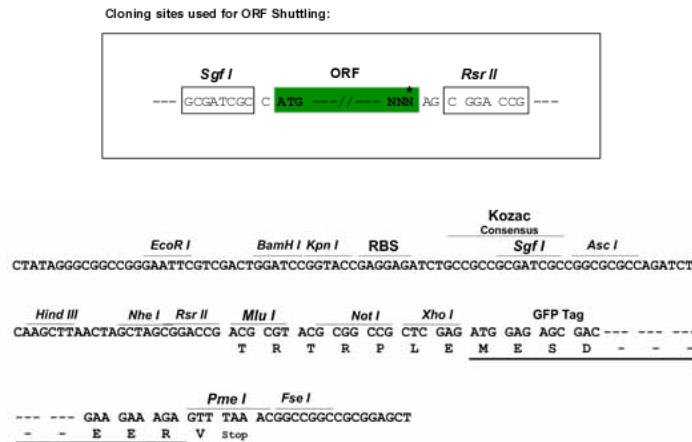
Protein Sequence: >RG222123 representing NM_003220
 Red=Cloning site Green=Tags(s)

MLWKLTDNIKYEDCEDRHDGTSNGTARLPQLGTVGQSPYTSAPPLSHTPNADFQPPYFPPPYQPIYPQSQ
 DPYSHVNDPYSLNPLHAQPQPQHPGWPGQRQSQESGLLHTHRGLPHQLSGLDPRRDYRRHEDLLHGPHAL
 SSSLGDLSTIHLPLHAIEEVPHVEDPGINIPDQTVIKKGPVSLSKSNSNAVSAIPINKDNLFGGVVPNEV
 FCSVPGRLSLLSSTSKYKVTVAEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLREKLDKIGLNLPAGR
 RKAANVTLTSLVEGEAVHLARDFGYVCETEFPKAVAFLNRQHSDPNEQVTRKNMMLLQKICKEFTD
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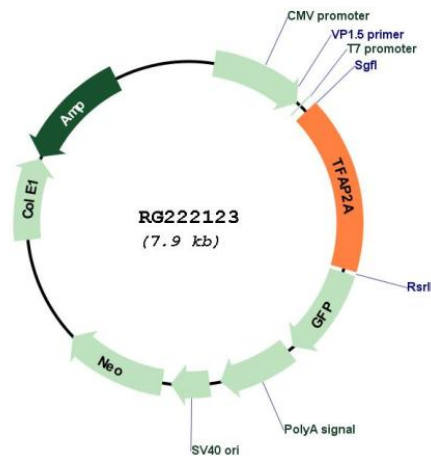
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_003220

ORF Size:	1311 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:	NM_003220.3
RefSeq Size:	1636 bp
RefSeq ORF:	1314 bp
Locus ID:	7020
UniProt ID:	P05549
Cytogenetics:	6p24.3
Domains:	TF_AP-2
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]