

Product datasheet for **RG204504**

AP2 beta (TFAP2B) (NM_003221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 beta (TFAP2B) (NM_003221) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP2 beta
Synonyms:	AP-2B; AP-2beta; AP2-B; PDA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204504 representing NM_003221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCTGGAAGCTTGTGGAGAATGTCAAGTACGAAGATATCTATGAGGACCGGCACGATGGTGTCCCGA
 GCCACAGCTCGCGCTCTCCAGCTGGGCTCGGTGTCCCAAGGACCCTACTCGAGCGCCCGCCGCTGTC
 CCACACCCCGTCGTCGGACTTCCAGCGCCCTACTTCCACCCCCCTACCAGCCGCTCCCTACCACCAG
 AGCCAGGACCCTACTCCACGTCAACGACCCCTACTCCCTGAACCCACTGCACCAGCCCGACAACATC
 CCTGGGGCAACGGCAGCGGCAAGAAGTGGGTTGGAAGCCGGCTCTCTCTGCCCCAGCCTCGGGCCGC
 CTTGCCAGCTCTGGGCCTTGACCCCGGAGGGACTACCCTCGTCCGCCGGCCGGACGTGCTGCTG
 CATTGGCGCACACGGCCTGGACGCGGGCATGGGTGACAGCCTCTCGCTGCACGGCCTCGGCCATCCCG
 GAATGGAAGACGTCCAGTCAGTTGAAGATGCCAATAACAGCGGCATGAATCTATTGGACCAGTCTGTCT
 TAAAAAAGTTCAGTTCCTCCCAATCGGTGACTTCTCTAATGATGAATAAAGACGGCTTCTGGGAGGC
 ATGTCTGTCAACACCGCGGAGGTGTTTTGCTCCGTCACAGGCCGTTTGTCTCTGCTCAGTTCAACTTCGA
 AGTACAAAGTAAGTGTGGGAGAAGTTCAGAGACGGCTGTCGCCCCCTGAATGCCTCAATGCATCTCTCT
 CGGCGGAGTCTCAGAAGAGCCAAATCGAAAAATGGGGGAGATCTTTGCGAGAAAGGCTAGAAAAAATC
 GGTTTGAATTTACCCGCGGGCAGGCGCAAAGCAGCAAAATGTCACGTTACTCACCTCCCTGGTGAAGGAG
 AAGCTGTTCACTTAGCTAGGGATTTTGGGTACATTTGCGAAACGGAGTTTCCCGCAAAGCCGCTCTCTGA
 GTATTTGAACCGGCAGCACACAGACCCGAGTGAACCTGCACTCCCGAAAGAATATGCTGTTGGCCACCAAG
 CAACCTTTGTAAGAATTTACGGATCTACTGGCGCAGGACCGGACCCGATAGGGAACAGCCGACCCAGCC
 CCATCCTGGAGCCGGGGATCCAGAGCTGCCTCAGCACTCAGCCTCATCAGCACGGCTTCGGCGCCCC
 GGCCATTTGCGCGCGCTCACGGCCCTGCAGAACTATCTCACCGAGGCGCTCAAAGGCATGGACAAGATG
 TTCTTGAACAACACCACCACTAACAGGCACACGTCTGGGGAAGGCCAGGTAGTAAAAGTGGCGACAAGG
 AGGAGAAACACAGGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204504 representing NM_003221
 Red=Cloning site Green=Tags(s)

MLWKLVENVKYEDIYEDRHDGVPSSHSSRLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYFPPPYQPLPYHQ
 SQDPYSHVNDPYSLNPLHQPQQHPWGQRQRQEVGSEAGSLLPQPRAALPQLSGLDPRRDYHSVRRPDVLL
 HSAHHGLDAGMGDSLHLHGLGHPGMEDVQSVEDANNSGMNLLDQSVIKKVPVPPKSVTSLMMNKDGLGG
 MSVNTGEVFCVPGRLSLLSSTSKYKVTVGEVQRRLLSPPECLNASLLGGVLRRAKSKNGGRSLRERLEKI
 GLNLPAGRRKAANVTLLTSLVEGEAVHLARDFGYICETEFPKAVSEYLNQHTDPSDLHSRKNMLLATK
 QLCKEFTDLLAQDRTPIGNSRPSPILEPGIQSCLTHFSLITHGFAPAICAALALQNYL TEALKGMDKM
 FLNNTTNRHTSGEGPGSKTGDKKEEHRK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003221

ORF Size: 1347 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_003221.2](#), [NP_003212.1](#)

RefSeq Size: 5770 bp

RefSeq ORF: 1383 bp

Locus ID: 7021

UniProt ID: [Q92481](#)

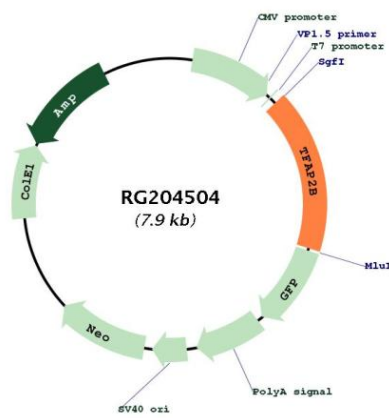
Cytogenetics: 6p12.3

Domains: TF_AP-2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the AP-2 family of transcription factors. AP-2 proteins form homo- or hetero-dimers with other AP-2 family members and bind specific DNA sequences. They are thought to stimulate cell proliferation and suppress terminal differentiation of specific cell types during embryonic development. Specific AP-2 family members differ in their expression patterns and binding affinity for different promoters. This protein functions as both a transcriptional activator and repressor. Mutations in this gene result in autosomal dominant Char syndrome, suggesting that this gene functions in the differentiation of neural crest cell derivatives. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204504