

Product datasheet for **SC310374**

AP2 beta (TFAP2B) (NM_003221) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 beta (TFAP2B) (NM_003221) Human Untagged Clone
Tag:	Tag Free
Symbol:	TFAP2B
Synonyms:	AP-2B; AP-2beta; AP2-B; PDA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310374 representing NM_003221.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCACTCACCTCCTAGAGACCAGGCTGCCATCATGCTCTGGAAGCTTGTGGAGAATGTCAAGTACGAA
GATATCTATGAGGACCGGCACGATGGTGTCCCGAGCCACAGCTCGCGGCTCTCCAGCTGGGCTCGGTG
TCCAAGGACCCTACTCGAGCGCCCGCCGCTGTCCACACCCCGTCGTGGACTTCCAGCGCCCTAC
TCCACCCCCCTACCAGCCGCTCCCTACCACCAGAGCCAGGACCCCTACTCCCACGTCAACGACCCC
TACTCCCTGAACCCACTGCACCAGCCCCAGCAACATCCCTGGGGCAACGGCAGCGGCAAGAAGTGGGT
TCGGAAGCGGCTCTCTCTGCCCCAGCCTCGGGCCGCTTGGCCAGCTCTCGGGCCTTGACCCCGG
AGGGACTACCACTCGGTCCGCCGCGGACGTGCTGCTGCATTCCGGCACCACGGCCTGGACGCGGGC
ATGGGTGACAGCCTCTCGCTGCACGGCCTCGCCATCCCGAATGGAAGACGTCCAGTCAAGTGAAGAT
GCCAATAACAGCGGCATGAATCTATTGGACCAGTCTGTCATTAAGTCCAGTTCCTCCAAATCG
GTACTTCTCTAATGATGAATAAAGACGGCTTCTGGGAGGCATGTCTGTCAACACCGGCGAGGTGTTT
TGCTCCGTCACAGCCGTTTGTCTCTGCTCAGTCAACTTCGAAGTACAAAGTAACTGTGGGAGAAGTT
CAGAGACGGCTGTGCCCCCTGAATGCCTCAATGCATCTCTCCTCGGCGGAGTCCCTCAGAAGAGCCAAA
TCGAAAAATGGGGGAGATCTTTGCGAGAAAGGCTAGAAAAATCGGTTTGAATTTACCCGCGGGCAGG
CGCAAAGCAGCAAATGTCACGTTACTCACCTCCCTGGTGAAGGAGAAGCTGTCACTTAGCTAGGGAT
TTTGGGTACATTTGCGAAACGGAGTTTCCCGCCAAAGCGTCTCTGAGTATTTGAACCGGCACACACA
GACCCGAGTGACCTGCACTCCCGAAAGAATATGCTGTTGGCCACCAAGCAACTTTGTAAGAATTTACG
GATCTACTGGCGCAGGACCGGACCCGATAGGGAACAGCCGACCCAGCCCATCTGGAGCCGGGATC
CAGAGCTGCCTCACGCACTTCAGCCTCATCAGCACGGCTTCGGCGCCCGGCCATTTGGCCCGCTC
ACGGCCCTGCAGAACTATCTCACCGAGGCGCTCAAAGGCATGGACAAGATGTTCTTGAACAACACCACC
ACTAACAGGCACACGTCTGGGGAAGGCCAGGTAGTAAACTGGCGACAAGGAGGAGAAACACAGGAAA
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

Plasmid Map: □

ACCN: NM_003221

Insert Size: 1383 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_003221.3](#)

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

MW: 50.5 kDa

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]