

Product datasheet for **SC323940**

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:	AP2 beta
Synonyms:	AP-2B; AP-2beta; AP2-B; PDA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003221.3
 CAGACATCTGCTCCTCACATGAATGCACTCACCTCCTAGAGACCAGGCTGCCATCATGCT
 CTGGAAGCTTGTGGAGAAATGTCAAGTACGAAGATATCTATGAGGACCGGCACGATGGTGT
 CCCGAGCCACAGCTCGCGGCTCTCCAGCTGGGCTCGGTGTCCCAAGGACCCTACTCGAG
 CGCCCCGCGCTGTCCCACACCCCGTCGTCGGACTTCCAGCCGCCTACTTCCCACCCCTA
 CTACCAGCCGCTCCCCTACCACCAGAGCCAGGACCCTACTCCCACGTCAACGACCCCTA
 CTCCTGAACCCACTGCACCAGCCAGCAACATCCCTGGGGGCAACGGCAGCGGCAAGA
 AGTGGGTTTCGGAAGCCGGCTCTCTCCTGCCCCAGCCTCGGGCCGCCTTCCCCAGCTCTC
 GGGCCTTGACCCCGGAGGGACTACCACTCGGTCCGCGCCGGACGTGTGCTGCATTC
 GGCGCACACGGCCTGGACGCGGGCATGGGTGACAGCCTCTCGCTGCACGGCCTCGGCCA
 TCCCGAATGGAAGACGTCCAGTCAGTTGAAGATGCCAATAACAGCGGCATGAATCTATT
 GGACCAGTCTGCTATAAAAAAGTTCCAGTTCTCCCAAATCGGTGACTTCTCTAATGAT
 GAATAAAGACGGCTTCTGGGAGGCATGTCTGTCAACACCGGCGAGGTGTTTTGCTCCGT
 CCCAGGCCGTTTGTCTCTGCTCAGTTCACTTCAAGTACAAAGTAACTGTGGGAGAAGT
 TCAGAGACGGCTGTGCCCCCTGAATGCCTCAATGCATCTCTCCTCGGCGGAGTCTCAG
 AAGAGCCAAATCGAAAAATGGGGGAGATCTTTCGAGAAAGGCTAGAAAAAATCGGTTT
 GAATTTACCCGCGGGCAGGCGCAAAGCAGCAAATGTCACGTTACTCACCTCCCTGGTGG
 AGGAGAAGCTGTTCACTTAGCTAGGGATTTTGGGTACATTTGCGAAACGGAGTTTCCCGC
 CAAAGCCGTCTCTGAGTATTTGAACCGGACACACAGACCCGAGTGACCTGCACCTCCCG
 AAAGAATATGCTGTTGGCCACCAAGCAACTTTGTAAAGAAATTTACGGATCTACTGGCGCA
 GGACCGGACACCGATAGGGAACAGCCGACCCAGCCCATCCTGGAGCCGGGGATCCAGAG
 CTGCCTCAGCACTTTCAGCCTCATCACGCACGGCTTCGGCGCCCCGGCCATTTGCGCCGC
 GTCACGCGCCCTGCAGAACTATCTCACCGAGGCGCTCAAAGGCATGGACAAGATGTTCTT
 GAACAACACCACCACTAACAGGCACACGCTCTGGGGAAGGCCAGGTAGTAAAAGTGGCGA
 CAAGGAGGAGAAAACAGGAAATGAAAAATTTTTAAAAAAGAAGAAAAATGTTTTAAA
 TACAAAAGAAAAACAGACAAAAATTTAATTTTAGCTTTAAAATATTGGATTGGCTTTGG
 AAGAATTATATTAGGTAGAAATACACATAACAATCAAATTTAAAAAAGCTAAATAA
 CTTAAAAAAGTGGGCGTACAACGGAGCAACAATATCGGTTCTCAGTGTCTATTTCA
 AGATACATTTGGAGACAACCGTCCGGATTTTCCACTTCGGTTCTTTCGAGTTTAGTAATA
 CTGATAATAAAAGAAAACCATGATTTCCCTTCCCTTTGGAAAAATAACATAAGACTAAA
 CATGAGAAAAACGCTAATTATTGGAAGAAAATCGGAGAAACGTTGGTGTCAATGCTTTG
 AGAGCTGGTTGACTGAGACGCACGAACTTTTAATTTTAAATATATTTTTAGGAACTCT
 CGCAGTCCCCGCTCCATCTCACCTCACCCGTCTCCCAACCACCTTTTCCATGTTACC
 CTCCCTTCTCACATTGTTACGGGAATCTTCTGGGATGAAAAATGAGTGTGGTTGGAAAAA
 AA

Restriction Sites: ECoRI-NOT

ACCN: NM_003221

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](#), [NP_003212.2](#)

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]