

## Product datasheet for **MR226530**

### Tfap2a (NM\_001122948) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tfap2a (NM_001122948) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tfap2a
Synonyms:	A; AP; AP-2; Ap-2 (a); Ap2; AP2alpha; Ap2tf; Tcfa; Tcfap2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226530 representing NM\_001122948  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTAGTTCACAGTTTTTCAGCTATGGACCGTACGACGGCACCAGCAACGGGACGGCACGGTTGCCCC  
 AGCTGGGCACTGTAGGTCAATCTCCCTACACCAGCGCCCCGCCGCTGTCCACACCCCTAATGCCGACTT  
 CCAGCCTCCCTACTTCCCCCGCCCTACCAGCCTATCTACCCCAAGTCGCAAGATCCTTACTCCACGTC  
 AACGACCCCTACAGCCTGAATCTCTGCACGCCAGCCGAGCCGAGCACCCGGGCTGGCCCGGTGAGA  
 GGCAGAGCCAGGAATCTGGGCTTTACACACACACCCGGGGCTTACCCACCAACTGTGGGCTGGACCC  
 TCGCAGGGACTATCGCGGCACGAGGACCTCTGCACGGCCCGCACGGGCTCGGCTCTGGGCTCGGGGAC  
 CTCCCGATCCACTCCTTACCTCACGCCATCGAGGACGTCCCGCACGTAGAAGACCCGGGTATTAACATCC  
 CAGATCAAAGTGAATTAAGAAAGGCCCGTGTCCCTGTCCAAGTCCAACAGCAATGCTGTCTCCGCCAT  
 CCCTATTAACAAGGACAACCTCTTCGGTGGCGTGGTAAACCCCAACGAAGTCTTCTGTTCAGTTCGGGT  
 CGCCTGTGCTCCTCAGCTCCACCTCGAAGTACAAGGTACAGGTGGCGGAAGTACAGCGGCGCCTCTCAC  
 CGCCCCAGTGTCTTAACGCGTCGCTCCTGGGCGGAGTACTGCGGAGAGCGAAGTCTAAGAATGGAGGGAG  
 ATCTTTAAGAGAAAACTGGACAAGATAGGATTGAATCTGCCAGCAGGGAGACGTAAGCTGCCAACGTT  
 ACCCTCCTCACGTCACTAGTGAAGGAGAAGCCGTCCACCTAGCCAGGGACTTTGGGTACGTGTGCGAAA  
 CTGAATTTCTGCCAAGCAGTAGCAGAATTTCTCAACCGACAACATTCGGATCCCAATGAGCAAGTGGC  
 AAGAAAAACATGCTCCTGGCCACAAAACAGATCTGCAAAGAGTTCACGTACCTGCTGGCTCAGGACCGA  
 TCTCCCCTGGGAACTCGCGGCCAATCCTATCCTGGAGCCTGGCATCCAGAGTTGCTTGACCCACTTCA  
 ACCTCATCTCCCATGGCTTCGGCAGCCCGGCGGTGTGTGCAGCGGTTACGGCCCTGCAGAACTATCTCAC  
 CGAGGCCCTCAAGGCCATGGACAAAATGTACCTCAGCAACAACCCCAACAGCCACACGGCAACAGCGCC  
 AAAAGCAGTGACAAAGAAGAGAAAACACAGAAAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226530 representing NM\_001122948  
 Red=Cloning site Green=Tags(s)

MLVHSFSAMDRHDGTSNGTARLPQLGTVGQSPYTSAPPLSHTPNADFQPPYFPPPYQPIYQSQDPYSHV  
 NDPYSLNPLHAQPQHPGWPGQRQSQESGLLHTHRGLPHQLSGLDPRRDYRRHEDLLHGPHGLSGLGD  
 LPIHSLPHAIEDVPHVEDPGINIPDQTVIKKGPVSLSKSNSNAVSAIPINKDNLFGGVNPNEVFCVPG  
 RLSLLSSTSKYKVTVAEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLREKLDKIGLNLPAGRRKAANV  
 TLLTSLVEGEAVHLARDFGYVCETEFPAKAVAEFLNRQHSDPNEQVARKNMLLATKQICKEFTDLAQRD  
 SPLGNSRPNPILEPQIQSCLTHFNLI SHGF GSPAVCAAVTALQNYL TEALKAMDKMYLSNPNNSHTDNSA  
 KSSDKKEEKHRK

SGP**TRTRRLEQKLI SEEDLAANDILDYKDDDDK**V

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001122948

**ORF Size:** 1293 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\\_001122948.2](#)

**RefSeq Size:** 3114 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 21418

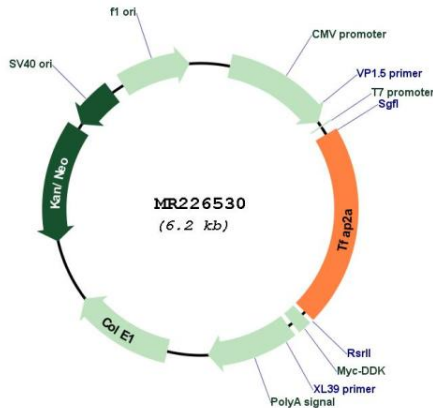
**Cytogenetics:** 13 20.01 cM

**MW:** 47.5 kDa

**Gene Summary:**

This gene is a member of the activator protein 2 (AP-2) transcription factor family. The protein encoded by this gene can act as both an activator and repressor of gene transcription, and plays an important role in early embryogenesis, specifically in cranial development. This protein forms both homodimers and heterodimers, and binds to a GC-rich consensus sequence found in some promoters and enhancers. Disruption of this gene causes perinatal death, with neural tube, craniofacial, and limb mesenchyme defects. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms. [provided by RefSeq, Sep 2014]

**Product images:**



Circular map for MR226530