

Product datasheet for **MR227244**

Tfap2b (NM_009334) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfap2b (NM_009334) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tfap2b
Synonyms:	AI606113; AP-2(beta); E130018K07Rik; Tcfap2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227244 representing NM_009334
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACTCACCTCCTAGAGACCAGGCTGCGATCATGCTCTGGAACTCGTGGAGAATGTCAAGTACGAAG
 ACATCTATGAGGACCGGCACGATGGCGTCCAAGCCATAGCTCGAGACTCTCTCAACTGGGCTCTGTGTC
 CCAAGGACCCTACTCAAGCGCCCCGCGCTGTCCACACGCCATCATCGACTTCCAGCCACCCTACTTT
 CCGCCCCCTACCAGCCGCTACCCTACCACCAGAGTCAAGACCCGTACTCCACGTAACAGATCCCTACT
 CCCTGAACCTCTGCATCAGCCCCAGCAGCACCCGTGGGGCAACGGCAACGCCAAGAAGTGGGCTCAGA
 AGCCGGCTCTCTCTGCCCCAGCCCCGGGCGAGCCTTGCCCGAGCTCTCCGGCCTTGATCCCCGAAGGGAC
 TACCCTCTGTCCGCGCCGGACGTGCTGCTGCATTCCGCACATCACGGCTGGACGCCGGCATGGGCG
 ACAGCCTCTCGTTGCACGGCCTTGGGCATCCCGGCATGGAAGACGTGCAGTCAGTTGAAGATGCCAATAA
 CAGCGGCATGAACCTATTGGACCAGTCAGTCATTAATAAAGTTCTGTCCCTCCCAAATCTGTGACTTCT
 CTAATGATGAATAAAGATGGCTTCTTGGGAGGAATGTCAGTCAACACCGCGAGGATATTTGCTCAGTCC
 CGGGCCGTTTATCTCTACTCAGTTCAACTTCAAAGTACAAAGTCACTGTGGGCGAAGTTCAGAGAAGGCT
 CTCGCCCCCTGAATGCCTCAATGCATCTCTCTGGGCGGCGTCTCAGAAAGCCAAATCGAAAAATGGG
 GGGAGATCCTTGAGAGAAAGGCTAGAAAAATCGGTTTGAATTTACCCGCGGGCAGGCGCAAAGCAGCAA
 ATGTCACGTTACTCACCTCACTGGTAGAAGGGGAAGCTGTTCACTTAGCTCGGGATTTCCGGTATATTTG
 TGAACAGAGTTTCTGCTAAAGCCGTGTCGAGTATTTGAACAGACAGCACACGGACCCAGTACCTG
 CACTCCAGAAAGAATATGCTGCTGGCCACCAAGCAACTTGTAAAGAATTACGGATCTGCTGGCTCAGG
 ACCGGACACCGATCGGAAACAGCAGGCCAGCCCATCCTGGAGCCGGGCATCCAAAGCTGTCTCACGCA
 CTTCAGTCTCATCAGCACGGCTTCGGTGCCTCCCGCCATTTGCGCTGCGCTCACGGCCCTGCAGAACTAT
 CTCACCGAGGCGCTCAAAGGCATGGACAAGATGTTCTTGAACAACACCACTAACAGGCACACGTCTGGG
 AAGGCCAGGTAGTAAAAGTGGCGACAAGGAGGAGAAACACAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227244 representing NM_009334
 Red=Cloning site Green=Tags(s)

MHSPPRDQAAIMLWKLVENVKYEDIYEDRHDGVPSSHSSRLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYF
 PPPYQPLPYHQSDPYSHVNDPYSLNPLHQPPQHPWQQRQVEVGSEAGSLLQPRAALPQLSGLDPRRD
 YHSVRRPDVLLHSAHHGLDAGMGDSLHLHGLGHPGMEDVQSVEDANNMGNLLDQSVIKKVPVPPKSVTS
 LMMNKDGFLLGGMSVNTGEVFCVPGRLSLLSSTSKYKVTVEVQRRRLSPPECLNASLLGGVLRRAKSKNG
 GRSLRERLEKIGLNLPAARRKAANVTLLTSLVEGEAVHLARDFGYICETEFPAKAVSEYLNQRHTDPSDL
 HSRKNMMLLQKQCKEFTDLAQDRTPIGNSRPSPILEPGIQSCLTHFSLITHGFGAPAICAALALQNY
 LTEALKGMDKMLNNTTNRHTSGEGPGSKTGDKEEKHRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_009334

ORF Size: 1377 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_009334.3](#), [NP_033360.2](#)
RefSeq Size: 6021 bp

RefSeq ORF: 1380 bp

Locus ID: 21419

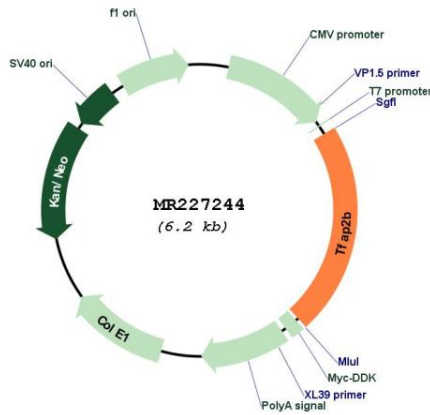
UniProt ID: [Q61313](#)

Cytogenetics: 1 A3

MW: 50.8 kDa

Gene Summary: Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC. AP-2-beta appears to be required for normal face and limb development and for proper terminal differentiation and function of renal tubular epithelia.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227244