

Product datasheet for **MR227246**

Tfap2b (NM_001025305) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfap2b (NM_001025305) 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:

>MR227246 representing NM_001025305
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAGTCCACACCTATTCATCCATGGACCGGCACGATGGCGTCCCAAGCCATAGTCTCGAGACTCTCTC
 AACTGGGCTCTGTGTCCCAAGGACCTACTCAAGCGCCCGCGCTGTCCACACGCCATCATCGGACTT
 CCAGCCACCCTACTTTCCGCCCCCTACCAGCCGCTACCCTACCACCAGAGTCAAGACCCGTACTCCAC
 GTCAACGATCCCTACTCCCTGAACCCTCTGCATCAGCCCCAGCAGCACCCGTGGGGGCAACGGCAACGCC
 AAGAAGTGGGCTCAGAAGCCGGCTCTCTCTGCCAGCCCCGGGAGCCTTGCCCCAGCTCTCCGGCT
 TGATCCCCGAAGGGACTACCACTCTGTCCGCGCGGACGTGCTGCTGCATTCCGCACATCAGGCCTG
 GACGCCGCATGGGCGACAGCCTCTCGTTGCACGGCCTGGGCATCCCGCATGGAAGACGTGCAGTCAG
 TTGAAGATGCCAATAACAGCGGCATGAACCTATTGGACCAGTCAGTCATTAAGAAAGTTCCTGTCCCTCC
 CAAATCTGTGACTTCTAATGATGAATAAAGATGGCTTCTTGGGAGGAATGTCAGTCAACACCGCGGAG
 GTATTTGCTCAGTCCCGGCCGTTTATCTCTACTCAGTCAACTTCAAAGTACAAAGTCACTGTGGCGG
 AAGTTCAGAGAAGGCTCTCGCCCCCTGAATGCCTCAATGCATCTCTCTGGGCGGCGTCCCTCAGAAGAGC
 CAAATCGAAAAATGGGGGAGATCCTTGAGAGAAAGGCTAGAAAAATCGGTTTGAATTTACCCGCGGGC
 AGGCGCAAAGCAGCAAATGTCACGTTACTCACCTCACTGGTAGAAGGGGAAGCTGTTCACTTAGCTCGGG
 ATTTCCGGTATATTTGTGAAACAGAGTTTCTGCTAAAGCCGTGTCCGAGATTTGAACAGACAGCACAC
 GGACCCAGTGACCTGCACTCCAGAAAGAATATGCTGCTGGCCACCAAGCAACTTGTAAAGAATTTACG
 GATCTGCTGGCTCAGGACCGGACACCGATCGGAAACAGCAGGCCAGCCCATCTGGAGCCGGGCATCC
 AAAGCTGTCTCAGCACCTTCAGTCTCATCAGCACGGCTTCGGTGCCTCCGGCATTGCGCTGCGCTCAC
 GGCCCTGCAGAACTATCTACCGAGGCGCTCAAAGGCATGGACAAGATGTTCTTGAACAACACCACTAAC
 AGGCACACGTCTGGGAAGGCCAGGTAGTAAACTGGCGACAAGGAGGAGAAACACAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227246 representing NM_001025305
 Red=Cloning site Green=Tags(s)

MLVHTYSSMDRHDGVPSHSSRSLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYFPPPYQPLPYHQSQDPYSH
 VNDPYSLNPLHQPPQHPWQRQRQEVGSEAGSLLPQRAALPQLSGLDPRRDYHSVRRPDVLLHSAHHGL
 DAGMGDSLHLHGLGHPGMEDVQSVEDANNNGMNLDDQSVIKKVPVPPKSVTSLMMNKDGFLLGMSVNTGE
 VFCVSPGRLSLLSSTSKYKVTVGEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLRERLEKIGLNLPA
 RKAANVTLLTSLVEGEAVHLARDFGYICETEFPAKAVSEYLNROHTDPSDLHSRKNMMLATKQLCKEFT
 DLLAQDRTPIGNSRPSPILEPGIQSCLTHFSLITHGFGAPAICAALTALQNYLLEALKGMDKMFNLNNTTN
 RHTSGEGPGSKTGDKKEEHRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9045_f12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001025305

ORF Size: 1323 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_001025305.2](#), [NP_001020476.1](#)

RefSeq Size: 6056 bp

RefSeq ORF: 1326 bp

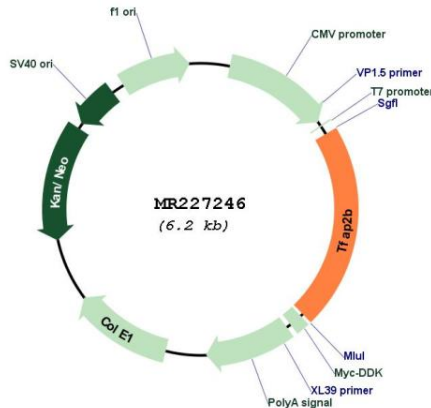
Locus ID: 21419

Cytogenetics: 1 A3

MW: 48.6 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 MR227246