

Product datasheet for **MG227246**

Tfap2b (NM_001025305) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tfap2b (NM_001025305) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tfap2b
Synonyms: Al606113; AP-2(beta); E130018K07Rik; Tcfap2b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227246 representing NM_001025305
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTAGTCCACACCTATTCATCCATGGACCGGCACGATGGCGTCCCAAGCCATAGCTCGAGACTCTCTC
 AACTGGGCTCTGTGTCCCAAGGACCCTACTCAAGCGCCCCGCGCTGTCCCACACGCCATCATCGGACTT
 CCAGCCACCTACTTTCCGCCCCCTACCAGCCGCTACCCTACCACCAGAGTCAAGACCCGTACTCCAC
 GTCAACGATCCCTACTCCCTGAACCCTCTGCATCAGCCCCAGCAGACCCGTGGGGCAACGGCAACGCC
 AAGAAGTGGGCTCAGAAGCCGGCTCTCTCTGCCCGCCGCGGAGCCTTGCCCCAGCTCTCCGGCCT
 TGATCCCCGAAGGACTACCACTCTGTCCGCGCCGGACGTGCTGCTGCATTCCGCACATCACGGCCTG
 GACCGCGCATGGGCGACAGCCTCTCGTTGCACGGCCTTGGGCATCCCGCATGGAAGACGTGCAGTCAG
 TTGAAGATGCCAATAACAGCGGCATGAACCTATTGGACCAAGTCAATTAAGTTCCTGTCCCTCC
 CAAATCTGTGACTTCTCTAATGATGAATAAAGATGGCTTCTTGGGAGGAATGTCAGTCAACACCGGCGAG
 GTATTTTGCTCAGTCCCGGGCGGTTTATCTCTACTCAGTTCAACTTCAAAGTACAAAGTCACTGTGGCGG
 AAGTTCAGAGAAGGCTCTCGCCCCCTGAATGCCTCAATGCATCTCTCTGGGCGGCGTCTCAGAAGAGC
 CAAATCGAAAAATGGGGGAGATCCTTGAGAGAAAAGCTAGAAAAATCGGTTTGAAATTTACCCGCGGGC
 AGGCGCAAAGCAGCAAATGTCACGTTACTCACCTCACTGGTAGAAGGGGAAGCTGTTCACTTAGCTCGGG
 ATTTCCGGTATATTTGTGAAACAGAGTTTCTCTGCTAAAGCCGTGTCGAGTATTTGAACAGACAGCACAC
 GGACCCAGTGACCTGCACTCCAGAAAAGATATGCTGCTGGCCACCAAGCAACTTTGTAAGAATTTACG
 GATCTGCTGGCTCAGGACCGGACACCGATCGGAAACAGCAGGCCAGCCCATCTGGAGCCGGGATCC
 AAAGCTGTCTCACGCACTTCACTCTCATCACGCACGGCTTCGGTGCCCCGGCCATTTGCGCTGCGCTCAC
 GGCCCTGCAGAACTATCTACCGAGGCGCTCAAAGGCATGGACAAGATGTTCTTGAACAACACCACTAAC
 AGGCACACGTCTGGGAAGGCCAGGTAGTAAACTGGCGACAAGGAGGAGAAACACAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227246 representing NM_001025305
Red=Cloning site Green=Tags(s)

MLVHTYSSMDRHDGVPSHSSRSLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYFPPPYQPLPYHQSDPYSH
 VNDPYSLNPLHQPPQHPWGORQRQEVGSEAGSLLPQPRAALPQLSGLDPRRDYHSVRRPDVLLHSAHHGL
 DAGMGDSL SLHGLGHPGMEDVQSVEDANNSGMNLDDQSVIKKVPVPPKSVTSLMMNKDGFLLGGMSVNTGE
 VFCSPVGRLLSLLSSTSKYKVTVGEVQRRLSPPECLNASLLGGVLRRAKSKNGGRSLRERLEKIGLNLPA
 RRKAANVTLLTSLVEGEAVHLARDFGYICETEFPAKAVSEYLNROHTDPSDLHSRKNMLLATKQLCKEFT
 DLLAQDRTPIGNSRPSPILEPGIQSCLTHFSLITHGFGAPAICAALTALQNYL TEALKGMDKMFLLNNTTN
 RHTSGEGPGSKTGDKKEEHRK

TRTRPLE - GFP Tag - V

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

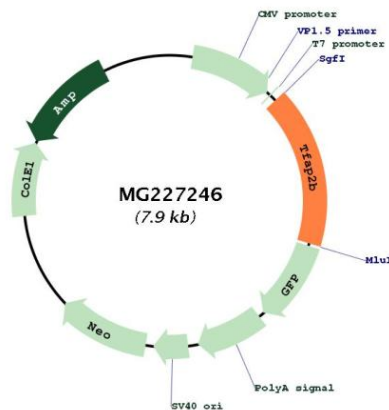
RefSeq ORF: 1326 bp

Locus ID: 21419

Cytogenetics: 1 A3

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 MG227246