

Product datasheet for **MR229985**

Tfap2b (NM_001286340) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfap2b (NM_001286340) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tfap2b
Synonyms:	AI606113; AP-2(beta); E130018K07Rik; Tcfap2b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR229985 representing NM_001286340
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACTCACCTCCTAGAGACCAGGCTGCGATCATGCTCTGGAACTCGTGGAGAATGTCAAGTACGAAG
 ACATCTATGAGGACCGGCACGATGGCGTCCCAAGCCATAGCTCGAGACTCTCTCAACTGGGCTCTGTGTC
 CCAAGGACCCTACTCAAGCGCCCCGCCGCTGTCCACACGCCATCATCGACTTCCAGCCACCCTACTTT
 CCGCCCCCTACCAGCCGCTACCCTACCACCAGAGTCAAGACCCGTACTCCACGTCAACGATCCCTACT
 CCCTGAACCTCTGCATCAGCCCCAGCAGCACCCGTGGGGCAACGGCAACGCCAAGAAGTGGGCTCAGA
 AGCCGGCTCTCTCTGCCCCAGCCCCGGGCAGCCTTGCCCCAGCTCTCCGGCCTTGATCCCCGAAGGGAC
 TACCACTCTGTCCGCCGGCAGCTGCTGCTGCATTCCGCACATCACGGCTGGACGCCGGCATGGGCG
 ACAGCCTCTCGTTGCACGGCCTTGGGCATCCCGCATGGAAGACGTGCAGTCAGTTGAAGATGCCAATAA
 CAGCGCATGAACCTATTGGACCAGTCAGTCATTAATAAAGTTCTGTCCCTCCCAAATCTGTGACTTCT
 CTAATGATGAATAAAGATGGCTTCTTGGGAGGAATGTCAGTCAACACCGGCGAGGATATTTGCTCAGTCC
 CGGGCCGTTTATCTCTACTCAGTTCAACTTCAAAGTACAAAGTCACTGTGGGCGAAGTTCAGAGAAGGCT
 CTCGCCCCCTGAATGCCTCAATGCATCTCTCTGGGCGGCTCCTCAGAAGAGCCAAATCGAAAAATGGG
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 ATGTCACGTTACTCACCTCACTGGTAGAAGGGGAAGCTGTTCACTTAGCTCGGGATTTCCGGTATATTTG
 TGAAACAGAGTTTCTGCTAAAGCCGTGTCGAGTATTTGAACAGACAGCACACGGACCCCAAGTACCTG
 CACTCCAGAAAGAATATGCTGCTGGCCACCAAGCAACTTTGTAAGAATTTACGGATCTGCTGGCTCAGG
 ACCGGACACCGATCGGAAACAGCAGGCCACCCCATCCTGGAGCCGGGCATCCAAAGCTGTCTCACGCA
 CTTCACTCATCACGCACGGCTTCGGTCCCGGCCATTTGCGCTGCGCTCACGGCCCTGCAGAATAT
 CTCACCGAGGCGCTCAAAGCATGGACAAGATGTTCTTGAACAACACCACTAACAGGCACACGTCTGGG
 AAGGCCAGGGCAACGCGCCCCACGCGTG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

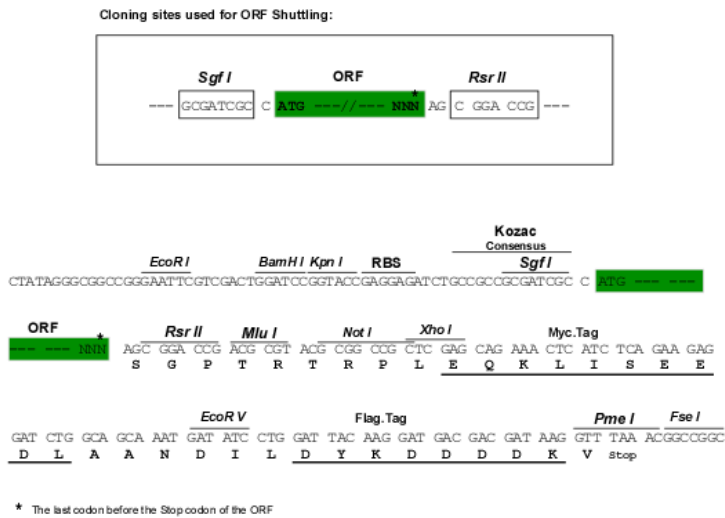
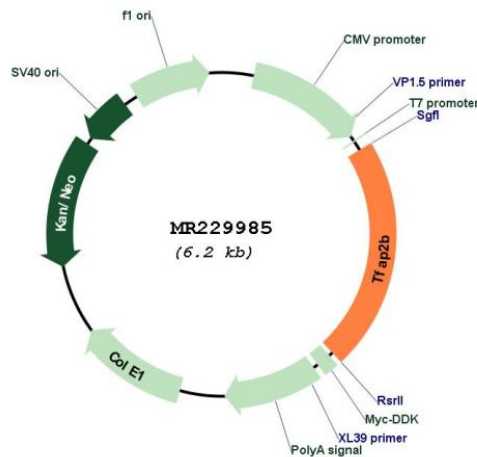
>MR229985 representing NM_001286340
 Red=Cloning site Green=Tags(s)

MHSPPRDQAAIMLWKLVENVKYEDIYEDRHDGVPSSHSSRLSQLGSVSQGPYSSAPPLSHTPSSDFQPPYF
 PPPYQPLPYHQSDPYSHVNDPYSLNPLHQPPQHPWQQRQREQVGEAGSLLPQPRAALPQLSGLDPRRD
 YHSVRRPDVLLHSAHHGLDAGMGDSLHLHGLGHPGMEDVQSVEDANNSGMNLLDQSVIKKVPVPPKSVTS
 LMMNKDGLGGMSVNTGEVFCVPGRLSLLSSTSKYKVTVEVQRRSPPECLNASLLGGVLRRAKSKNG
 GRSLRERLEKIGLNLPAGRRKAANVTLLTSLVEGEAVHLARDFGYICETEFPKAVSEYLNQRHTDPSDL
 HSRKNMLLATKQLCKEFTDLLAQDRTPIGNSRPSPILEPGIQSCLTHFSLITHGFAPAICAAL TALQNY
 LTEALGMDKMF LNNTNRHTSGEGPQRAPRV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Plasmid Map:


ACCN: NM_001286340

ORF Size: 1359 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_001286340.1](#), [NP_001273269.1](#)

RefSeq Size: 3831 bp

RefSeq ORF: 1362 bp

Locus ID: 21419

Cytogenetics: 1 A3

MW: 50.1 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]