

Product datasheet for MR226541

Tmpo (NM_001080131) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmpo (NM_001080131) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmpo
Synonyms:	5630400D24Rik; AI195756; AI606875; AW214352; AW547477; LAP2; TP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226541 representing NM_001080131 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGAGTTCTAGAGGACCCCTCGGTCTGACCAAAGACAAGTTGAAGAGCGAGTTGGTCGCCAACA
ACGTGACGCTCCCGGCCGGCAGCAGCGCAAGGACGTGTACGTGCAGCTCTACCTGCAGCACCTCACGGC
GCGCAACCGGCCCGCTCGCCGCGGGAGCCAACAGCAAAGGGCCCGGACTTCTCGAGCGACGAGGAG
CGCGAGCCACGCCGGTCTCGGCTCCGGGCCCTCCGTGGTTCGCGGCCGCGCGCCGTCGGCAGGAAAG
CCACAAAGAAAAGTATAAGCCAGGCTAGAAGATAAAGATGATCTGGATGTGACAGAGCTCTAATGA
AGAACTTCTGGATCAGCTTGAAGATATGGAGTGAATCCTGGTCCATTGTGGGAACAACCGGAAGCTA
TATGAGAAGAAGCTGTTGAAGCTGAGGGAGCAGGGAATGAATCGAGATCCTCTACTCCTTCCAACAG
TCTCTTCTCTGCAGAAAACACAAGGCAGAATGGAAGTAACTGACTCTGACAGATACAGCGACAATGATGA
AGACTCTAAAAAGAGCTGAAGCTTGAAGAGGGAGCCGCTAAAGGGCAGAGCCAAGACGCCAGTCACA
CTGAAGCAGAGAAGGACTGAGCACAATCAGGTGGCCAATAGGTTGACTGGAAATTTCAAGCATGCATCTT
CTATTCTGCCAATCACTGAATTCAGACATAACCAGAAGAACACCAAAGAAACCATTGACAAGAGCTGA
AGTGGGAGAAAAACAGAGGAGCGAAGAGTAGACAGGGATATTCTTAAGGAAATGTTCCCTACGAAGCC
TCCACTCCGACGGGAATCAGTGTAGCTGCCGACACCAATCAAAGGTGCTGCAGGCCGGCCGCTCGAGC
TCAGTACTTCAGGATGGAAGAGTCGTTCTCATCTAAGTACGTCCGAAGTATGCTCCCTTGGCAGATGT
CAAGTCAGAAAAGACAAAGAAGAGACGCTCCGTTCCCATGTGGATAAAAAATGTTGCTGTTTGGCCTTGTG
GCCGTGTTTTGTTTTGGTCTATCAAGCTATGGAACCAACCAAGGAAATCCCTTCACTAATTTTCTTC
AAGATACTAAAATATCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226541 representing NM_001080131
Red=Cloning site Green=Tags(s)

MPEFLEDPSVLTKDKLKSELVANNVTLPAGEQRKDVVYVQLYLQHLTARNRPPLAAGANSKGPDPDFSSDEE
 REPTPVLGSGASVGRGRGAVGRKATKTKDKPRLEDKDDLVDVTELSNEELLDQLVRYGVNPGPIVGTTRKL
 YEKLLKLREQGTESRSSTPLPTVSSAENTRQNGSNDSDRYSDNDEDSKIELKLEKREPLKGRAKTPVT
 LKQRRTEHNQVANRLTGNFKHASSILPIITFSDITRRTPKKPLTRAEVGEKTEERRVDRDILKEMFPYEA
 STPTGISASCRRPIKGAAGRPLELSDFRMEESFSSKYVPKYAPLADVKSEKTKRRSVPMWIKMLLFALV
 AVFLFLVYQAMETNQGPNFTNFLQDTKISN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001080131

ORF Size: 1140 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_001080131.2](#), [NP_001073600.1](#)

RefSeq Size: 3317 bp

RefSeq ORF: 1143 bp

Locus ID: 21917

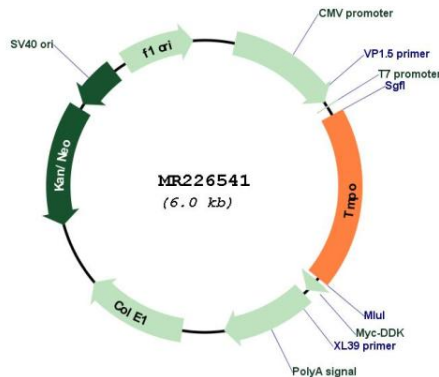
UniProt ID: [Q61029](#)

Cytogenetics: 10 45.66 cM

MW: 43.1 kDa

Gene Summary: May be involved in the structural organization of the nucleus and in the post-mitotic nuclear assembly. Plays an important role, together with LMNA, in the nuclear anchorage of RB1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226541