

Product datasheet for **MG227008**

Tmpo (NM_001080129) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmpo (NM_001080129) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmpo
Synonyms:	5630400D24Rik; AI195756; AI606875; AW214352; AW547477; LAP2; TP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227008 representing NM_001080129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGGAGTTCTAGAGACCCTTCGGTCTGACCAAAGACAAGTTGAAGAGCGAGTTGGTCGCCAACA
 ACGTGACGCTCCCGGCCGCGAGCAGCGCAAGGACGTGTACGTGCAGCTCTACCTGCAGCACCTCACGGC
 GCGCAACCGGCCCGCTCGCCGCGGGAGCCAACAGCAAAGGGCCGCCGACTTCTCGAGCGACGAGGAG
 CGCGAGCCACGCCGGTCTCGGCTCCGGGGCCTCCGTGGGTGCGCGCCGCGCGCGCTCGGAGGAAAG
 CCACAAAGAAAAGTATAAGCCAGGCTAGAAGATAAAGATGATCTGGATGTGACAGAGCTCTCTAATGA
 AGAACTTCTGGATCAGCTTGAAGATATGGAGTGAATCCTGGTCCATTGTGGGAACAACCGGAAGCTA
 TATGAGAAGAAGCTGTTGAAGCTGAGGGAGCAGGGAAGTGAATCGAGATCCTCTACTCTCTTCCAACAG
 TCTCTTCTCTGCAGAAAACACAAGGCAGAATGGAAGTAAAGACTCTGACAGATACAGCGACAATGATGA
 AGACTCTAAAATAGAGCTGAAGCTTGAAGAGGGAGCCGCTAAAGGGCAGAGCCAAGACGCCAGTCACA
 CTGAAGCAGAGAAGGACTGAGCACAATCAGAGCTATTCTCAAGCTGGAGTAACTGAGACTGAATGGACGA
 GTGGATCTTCAACAGGCCGACCTCTGCAGGCATTAAGTGGGAGTCCACGAGAGGGTTCGAGAAGAACTCC
 AAGGAAAAGGGTGGAACTTACAGCATTTTCGTATAGATGGTGCAGTAATTTTCAGAGAGTACTCCATA
 GCTGAAACTATAAAGGCTTCAAGCAACGAATCCTTAGTGGCCAATAGGTTGACTGGAAATTTCAAGCATG
 CATCTTCTATTCTGCCAATCACTGAATTTCTCAGACATAACCAGAAGAACACCAAAGAAACATTGACAAG
 AGCTGAAGTGGGAGAAAAACAGAGGAGCGAAGAGTAGACAGGGATATCTTAAGGAAATGTTCCCTAC
 GAAGCCTCCACTCCGACGGGAATCAGTGTAGCTGCCGACAGCAATCAAAGTGTGTCAGGCCGCGCCG
 TCGAGCTCAGTGACTTCCAGGATGGAAGAGTCGTTCTCATCTAAGTACGTCCCGAAGTATGCTCCCTGGC
 AGATGTCAAGTCAGAAAAGACAAAGAAGAGACGCTCCGTTCCCATGTGGATAAAAAATGTTGCTGTTGCC
 CTGTGGCCGTGTTTTGTTTTGGTCTATCAAGCTATGAAACCAACCAAGGAAATCCCTTCACTAATT
 TTCTTCAAGATACTAAAATATCCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227008 representing NM_001080129
 Red=Cloning site Green=Tags(s)

MPEFLEDPSVLTKDKLSELVANNVTLPAGEQRKDVYVQLYLQHLTARNRPPLAAGANSKGGPPDFSSDDE
 REPTPVLGSGASVGRGRGAVGRKATKKTDKPRLEDKDDLVDTEL SNEELLDQLVRYGVNPGPIVGTTRKL
 YEKLLKLREQTESRSSTPLPTVSSAENTRQNGSNDSDRYSDNDEDSKIELKLEKREPLKGRAKTPVT
 LKQRREHNQSYSQAGVTETEWTSGSSTGGPLQAL TRESTRGSRRTPRKRIVETSQHFRIDGAVISESTPI
 AETIKASSNESLVANRLTGNFKHASSILPITFEFSDITRRTPKKPL TRAEVGEKTEERRVDRDILKEMFPY
 EASTPTGISASCRRIKGAAGRPLELSDFRMEESFSSKYVPKYAPLADVSEKTKRRSVPWIKMLLFA
 LVAVFLFLVYQAMETNQGNPFTNFLQDTKISN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001080129

ORF Size: 1356 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_001080129.2](#), [NP_001073598.1](#)

RefSeq Size: 3533 bp

RefSeq ORF: 1359 bp

Locus ID: 21917

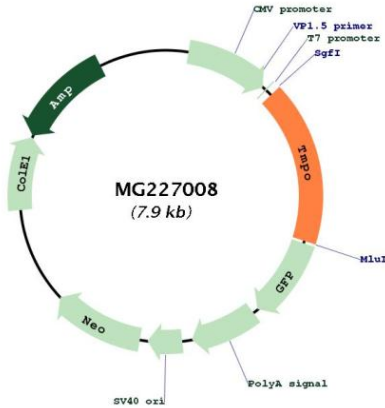
UniProt ID: [Q61029](#)

Cytogenetics: 10 45.66 cM

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 MG227008