

Product datasheet for MR221964L3

Tpx2 (NM_028109) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tpx2 (NM_028109) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Tpx2

Synonyms: 2610005B21Rik; DIL2; p100; REPP86

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR221964).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.



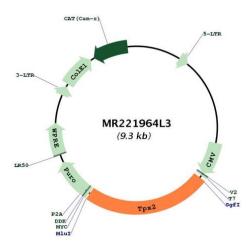
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Plasmid Map:



ACCN: NM_028109 **ORF Size:** 2238 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: <u>NM 028109.4</u>

RefSeq Size: 4352 bp RefSeq ORF: 2238 bp



Tpx2 (NM_028109) Mouse Tagged Lenti ORF Clone - MR221964L3

 Locus ID:
 72119

 UniProt ID:
 A2APB8

 Cytogenetics:
 2 H1

Gene Summary: Spindle assembly factor required for normal assembly of mitotic spindles. Required for

normal assembly of microtubules during apoptosis. Required for chromatin and/or kinetochore dependent microtubule nucleation. Mediates AURKA localization to spindle microtubules. Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation. TPX2 is inactivated upon binding to

importin-alpha. At the onset of mitosis, GOLGA2 interacts with importin-alpha, liberating TPX2

from importin-alpha, allowing TPX2 to activates AURKA kinase and stimulates local

microtubule nucleation.[UniProtKB/Swiss-Prot Function]