

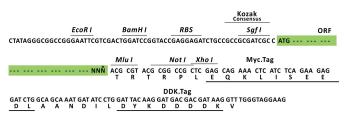
# Product datasheet for MR221966L3

# Tpx2 (NM\_001141976) Mouse Tagged Lenti ORF Clone

## **Product data:**

#### **Product Type: Expression Plasmids Product Name:** Tpx2 (NM\_001141976) Mouse Tagged Lenti ORF Clone Tag: Myc-DDK Symbol: Tpx2 2610005B21Rik; DIL2; p100; REPP86 Synonyms: **Mammalian Cell** Puromycin Selection: Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(MR221966). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling:





\* The last codon before the Stop codon of the ORF.

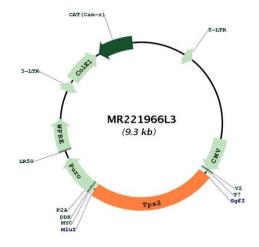


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### OriGene Technologies, Inc.

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### Plasmid Map:



| ACCN:                  | NM_001141976   |
|------------------------|--|
| 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. <u>More info</u>                                  |
| 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: | <ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| RefSeq:                | <u>NM 001141976.1, NP 001135448.1</u>  |
| RefSeq Size:           | 4177 bp  |
| RefSeq ORF:            | 2238 bp  |

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|               | Tpx2 (NM_001141976) Mouse Tagged Lenti ORF Clone – MR221966L3   |
|---------------|---|
| Locus ID:     | 72119   |
| UniProt ID:   | A2APB8  |
| Cytogenetics: | 2 H1  |
| Gene Summary: | Spindle assembly factor required for normal assembly of mitotic spindles. Required for<br>normal assembly of microtubules during apoptosis. Required for chromatin and/or<br>kinetochore dependent microtubule nucleation. Mediates AURKA localization to spindle<br>microtubules. Activates AURKA by promoting its autophosphorylation at 'Thr-288' and<br>protects this residue against dephosphorylation. TPX2 is inactivated upon binding to<br>importin-alpha. At the onset of mitosis, GOLGA2 interacts with importin-alpha, liberating TPX2<br>from importin-alpha, allowing TPX2 to activates AURKA kinase and stimulates local<br>microtubule nucleation.[UniProtKB/Swiss-Prot Function] |

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