

## Product datasheet for **MC202638**

### **Tpx2 (NM\_028109) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tpx2 (NM_028109) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tpx2
Synonyms:	2610005B21Rik; DIL2; p100; REPP86
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC060619 sequence for NM\_028109  
 GGACTCGTAGGGTTGGTCAAGCTGAAACCGGGAAAGTAGCGTGAAGGTGAGGGGAGGCAGCGGTGCGCC  
 GGAGGCCGTTTTTCCAGGGTCTGAGAGGGCAGGGGAGTCCCCGGGCGGGTCCGGACAGCCTAGACAGC  
 GCGCGGGCTTTGGACGCCGTGACAGGACTTCGGGGCGTTGGTATTTCTGGGAACCCCGAGCAGAGGCT  
 GCTCCAGGCTGTCAGCCACTAGACGGTCTTTCATGAGAAGTGTCTGCCAGACTGCAAGAATTCAGAGAC  
 TTGAGAACTTGATTGTGGCTTTGAGCGAGTTGTCAGAAGACAGTCTATTGAGGAGATTAGAACTCT  
 GGAAAAAGCTTTGTTTTCTGCACTAAGTTGGGGCAATGTCACAAGTCCCTACTACTCTTTCTGATGC  
 CCCCACCGACTTTATCAATTTTTTCATCTTTGGATGCTGAAGAGGATACTGAAAATATAGACTCATGGTTT  
 GATGAGAAGGCCAACTTGAGAAACAAGTTTCTCGACAGAGGGGAATAGCGAGCCTTTTCAGGGGAAGA  
 ATTCCTTGAGAAAAGCCAACTTCAACAGGGCTTCGTACACCGTTGAAGGCAGTTGACAACACTTACCA  
 CAAAGAGACAGAAAAGGAAAATCTTCAGAAACAGTCTATCCCATCAAATGATTGTTCTTCCCTGGATGCT  
 AAGAGAGCTGTATCAGGAAATACTCCTGTCCAGCCTCAGAGAAGATCTATTAGACTCTGTCTCAGAAGG  
 ATTTGGAGCAGAAAGAGAAAAACCATGTTGCCTCTGTTGAAATGAAAGCCAAGAGATGTTGTCTCCGGC  
 CACTGATTGTCCCCCAGAAAAGAATGAAAGTTTCTGATAAAAAAGAACTGGAGGAAGAGGAGGAAGGC  
 AGTGCTCCAGCTACTTCAAGAAAGAATGAAAGAGAAACCTGGAGAAAGCCAAGGGCAAGCACACTGTGC  
 CAGGTGTGCCACCTGCAAGGGAGAAGGTTCTAAAGAGTACTGAGGAGCAGGAGATAGAGAAAAGGCTGCG  
 GATGCAGCAGGAGGTGGTGGAGCTGCGCAGGAAAAACGAAGAGTTCAAGAAGCTCAGGCTCGCAGGGCCA  
 GGGCAACCTGTGAAGAAGTCCACGAGCCAGGTTACCAAGACAGTTGACTTTCCTTCCACAGATGAGC  
 GAATCAAGCAACATCCCAAGAACCAGGAAGAGTATAAGGAAGTGAACCTTCATGTCTGAACTTCGGAAGCA  
 TTCTTCCACGCTGCCCGAGGAACCAGAGGATGCACTATCATTAAAGCCTTCAACCTGTCCAAAGGGGAA  
 AAAAGAACATTTGATGAAGCAGCTTCTACGTATGTGCCATTGCACAGCAGGTTGAAGCCTTCCACAAAC  
 GAACCCCAATAGATACCATCTGAGGAACAAGAAGGACGAGAGCTTGTACCTCCAAATCTGTGAACAA  
 GATTGCACGAGACCCCGAGCCCATACTGCAGACCAAAATCGTACAAGGGCTGTGATGCAAAAAGT  
 ACTGCAGAGCAGGAGGCCGAGGAGCTTGAGAACTGCAACAATACAAATTCAAAGCACGGGAACCTTGATC  
 CTAGAATTTTTGAAAGTGGCCCCATCTGCCCAAGAGAGCACCTGTTAAACCTCCTACTAGCCTGTTGG  
 TTTTGATTTGAAATTGAGAAACGAATTCATGAGCGAGAGTCAAAGAAAAAACAGAAGATGAACAATTT  
 GAATTTCACTTAGACCTTGCTACTAAGATCTTGAAGATGTCGTGGGTGTTCTGAAAAGAAGGTAA  
 TTCCAGCTACTGTCCGAAGTCGCCAGTTTTGTCATTGAAGAACAGGATCCGAGTGCCCATCAAAGATGA  
 GGAAGAGGAGAAACAGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTAAAGCCCCAC  
 ATCGCAGAGGCAAGAAATGTGGAGGTGTGCCCGTTCTCCTTTGATACCCGGGACAAGAACGCCAGTTGC  
 AGAAGGAGAAAAAATAAAGAGATGCAGAAAGGGGAGGTGCCCAAGTTCAAGGCACTTCTGTGCCCA  
 TTTTGACACCATTAACTGCCAGAGAAAAAGGTAAGAAGCTGACTCAAGCTGAGCCTTTCTCCCTGGAG  
 ACAGACAAGAGAGGCGCTACAAGGCTGAGATGTGGAAGCACCAGCTGGAGGAAGAGCAGAAGCAGCAGA  
 AGGACGCCGCTTGCTTCAAGGCTCGTCCAAACACCGTCATCTTCCAAGAGCCCTTCGTTCCCAAGAAGGA  
 GAAAAATCACTGGCTGAGAACCCTTCTGGTTCTCTAGTTTCAGGAACCTTTTCAGCTGGCCACCGAGAGG  
 AGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAAAATGGTGAAGTGAAGGCTGGAACTGCAGCAGTTGG  
 AGGAAGTCAGGCAGCAGGAAGAGGAGCAGCAGAAGGAGGAGTTAGCCAGGCTCCGGAAAGAACTGGTGCA  
 CAAGGCAATCCAATACGGAAGTACGCAGCAGTGGAGGTGAAATCTAGCGAGCTGCCTCTGACTGTGCC  
 GTGTCTCCTAAGTTCTCCACTCGGTTCCAGTAGAAGCTGCATCTATATCAAGCATGGAGCACGCGTCT  
 TCAGACTCACCCCATGTGTGGAACACACCTGATAACTAATGGATGCCGGGTGTTTTGAAGATGACTC  
 TACACAGCAACTTTGAAGCTAATGAGCCTCACTCATTTAGACTTTAACCAGACTTCTTGTAGTTATTTT  
 CTTTCAGACATTAGCCGGCCCTTCTGTTGGTCTTAACGCTGGCTAGGATTTCAAGAATTCGTTTTGGCA  
 TAGTCTACTTTTACCTAATCCCCCTTATTACCCTTATATATGATTTTAAAGCATAAAAATAAAGGCAG  
 TCAATTCCTGAAA

**Restriction Sites:** Ascl-NotI  
**ACCN:** NM\_028109  
**Insert Size:** 2238 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC060619</a> , <a href="#">AAH60619</a>
<b>RefSeq Size:</b>	2994 bp
<b>RefSeq ORF:</b>	2238 bp
<b>Locus ID:</b>	72119
<b>UniProt ID:</b>	<a href="#">A2APB8</a>
<b>Cytogenetics:</b>	2 H1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1.</p>