

Product datasheet for **MR221968**

Tpx2 (NM_001141977) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpx2 (NM_001141977) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpx2
Synonyms:	2610005B21Rik; DIL2; p100; REPP86
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR221968 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACAAGTCCCTACTACTTCTTTTCGATGCCCCACCGACTTTATCAATTTTTCATCTTTGGATG
 CTGAAGAGGATACTGAAAATATAGACTCATGGTTTGATGAGAAGGCCAACTTGGAGAACAAGTTTCTTCG
 ACAGAGGGGAATAGGCGAGCCTTTTCAGGGGAAGAATTCCTTGAGAAAAGCCAACTTCAACAGGGCTTC
 GTCACACCGTTGAAGGCAGTTGACAACACTTACCACAAAGAGACAGAAAAGGAAAATCTTCAGAAACAGT
 CTATCCCATCAAATGATTGTTCTCCCTGGATGCTAAGAGAGCTGTATCAGGAAACTCTGTCCAGCC
 TCAGAGAAGATCTATTAGACTCTCTGCTCAGAAGGATTTGGAGCAGAAAGAGAAAACCATGTTGCCTCT
 GTTGAAATGAAAGCCAAGAGATGTGTTGCTCCGGCCACTGATTGTCCCCCAGAAAAGAATGAAAGTTT
 CTGATAAAAAGAACTGGAGGAAGAGGAGGAAGGCAGTGTCCAGCTACTTCAAGAAAAGAAATGAAAGAGA
 AACCTTGAGAAAAGCCAAGGGCAAGCACACTGTGCCAGGTGTGCCACCTGCAAGGGAGAAGTTCTAAAG
 AGTACTGAGGAGCAGGAGATAGAGAAAAGGCTGCGGATGCAGCAGGAGGTGGTGGAGCTGCGCAGGAAAA
 ACGAAGAGTTCAAGAAGCTCGCGCTCGCAGGGCCAGGGCAACCTGTGAAGAAGTCCACGAGCCAGGTTAC
 CAAGACAGTTGACTTTCCTTCCCTCACAGATGAGCGAATCAAGCAACATCCCAAGAACCAGGAAGAGTAT
 AAGGAAGTGAAGTTCATGTCTGAACTTCGGAAGCATTCTCCACGCTGCCCGAGGAACCAGAGGATGCA
 CTATCATTAAAGCCTTCAACCTGTCAAAGGGAAGAAAAGAACATTTGATGAAGCAGCTTCTACGTATGT
 GCCCATTCACAGCAGGTTGAAGCCTTCCACAACGAACCCCAATAGATACCATCTGAGGAACAAGAAG
 GACGAGAGCTTGTACCTCCTCAATCTGTGAACAAGATTGCACGAGACCCCGAGACCCCATAGTGCAGA
 CCAAATATCGTACAAGGGCTGTGACTTGCAAAAGTACTGCAGAGCAGGAGGCCGAGGAGCTTGAGAAAAC
 GCAACAATACAAATTCAAAGCACGGGAACCTTGATCCTAGAAATTTTGAAGTGGCCCATCTTGCCCAAG
 AGAGCACCTGTTAAACCTCCTACTCAGCCTGTTGGTTTTGATTTGAAAATTGAGAAAAGAAATTCATGAGC
 GAGAGTCAAAGAAAAACAGAAGATGAACAATTTGAATTTCTAGACCTTGTCTACTAAGATCTT
 GGAAGATGTCGTGGGTGTTCTGAAAAGAAGGTAATTCAGTACTGTCCCGAAGTCGCCAGTTTTTGCA
 TTGAAGAACAGGATCCGAGTGCCCATCAAAGATGAGGAAGAGGAGAAACCAGTAGTGATAAAAGCTCAAC
 CTGTGCCACATTATGGGGTGCCTATAAGCCCCACATCGCAGAGGCAAGAAATGTGGAGGTGTGCCCGTT
 CTCCTTTGATACCCGGGACAAAGAACGCCAGTTGCAGAAGGAGAAAAAATAAAAGAGATGCAGAAAGGG
 GAGGTGCCAAGTTCAAGGCCTTCTGTGCCCATTTTGACACCATTAACTGCCAGAGAAAAAGGTAA
 AGAACGTGACTCAAGCTGAGCCTTCTCCTGGAGACAGACAAGAGAGGCGCCTACAAGGCTGAGATGTG
 GAAGCACCAGCTGGAGGAAGAGCAGAAGCAGCAGAAGGACGCGCTTGCTTCAAGGCTCGTCCAAACACC
 GTCATCTTCCAAGAGCCCTTCGTTCCCAAGAAGGAGAAAAATCACTGGCTGAGAACCCTTCTGGTTCTC
 TAGTTCAGGAACCTTTTCAGCTGCCACCAGAGAGGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAAAAT
 GGCTGAAGTAGAGGCTGGAAACTGCAGCAGTTGGAGGAAGTCAGGCAGCAGGAAGAGGAGCAGCAGAAG
 GAGGAGTTAGCCAGGCTCCGAAAGAAGTGGTGCACAAGGCAATCCAATACGGAAGTACGCAGCAGTGG
 AGGTGAAATCTAGCGAGCTGCCTCTGACTGTGCCGGTGTCTCCTAAGTTCTCCACTCGGTTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATGAGTTTAA

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_001141977.1](#), [NP_001135449.1](#)

RefSeq Size: 4365 bp

RefSeq ORF: 2238 bp

Locus ID: 72119

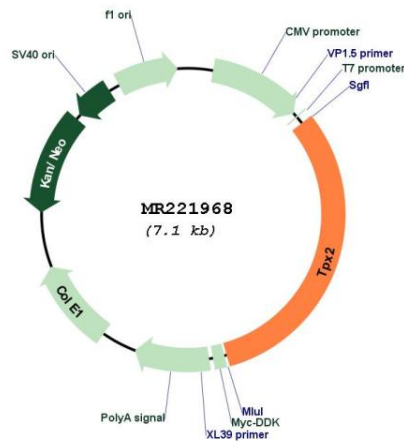
UniProt ID: [A2APB8](#)

Cytogenetics: 2 H1

MW: 85.9 kDa

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]

Product images:



Circular map for MR221968