

## Product datasheet for **RR208711**

### **Tpx2 (NM\_001107790) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tpx2 (NM_001107790) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpx2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR208711 representing NM\_001107790  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCAAGTCCCAACAGCTTACTCGTTTGATGCCCCACCGACTTTATCAACTTTTCATCTTTGGATG  
 CTGAAGAGGACACTGAAAATATAGACTCATGGTTTGATGAGAAGGCCAACTTGGAGAACAAGTTTCTTCG  
 GCAGAGTGAATAGGAGAACCTTTTCAGGGGAAGACGTCCTTGAGAAAAGCCAACTTCAACAAGGCTGT  
 GTCACACCATTGAAGGCAGTTGATAACACTTACTACAAAGAGACAGAAAAGGAAAATCTTCAGAAGCAAT  
 CTATCCCATCAAATGATTGCTCTCCCTGAATGCTAAGAGAGCTGTGACAGGAACTACTCCCATCCAGCC  
 TCAGAGAAGATCTGTTAGACTCTCTGCTCAGAAGGATTTGGAGCAGAAAAGAGAAAACCATGTTGCCTCT  
 GTTGAAATGAAAGCCAAGAGATGCACTGCTCCACGACTGATTATCCCCCAACAAGAAAATGAAAGTGT  
 CTCATAAAAAGAAACCGGAGGAAGAAGAGGAGGGCAGTGTCCAGCTACTTCAAGAAAGGATGAACTCT  
 GGAGAGGGCCAAGGGCAAACACTGTGCTGCTGTGCCGCTGCCAGGGAGAAGACTGTAAGAGTACT  
 GAAGAGCAGGAGTTAGAGAAGAGTCTGAGAATGCAGCAGGAAGTGGTAGAGATGCCGAAGAAGAATGAAG  
 AGTTTAAGAAGCTGGCTCTTGCAGGGCCAGGGCAACCTGTGAAGAAATCCACCAGCCAGGTTACCAAGAC  
 AGTTGACTTTCACTTCTCACAGATGAGAGAATCAAACAACATCCCAAGAGCCAGGAGGAGTATAAGGAA  
 GTGAACCTTCATGTCCGAACCTCGAAAGCATTCTCCACTCCTGCCCGAGGGACCAGAGGATGTACCATCA  
 TTAAGCCTTTCAATCTGTCCAAGGAAAGAAAAGAACATTTGACGAAGCAGCGTCTACATATGTGCCAT  
 TGCACAGCAGGTTGAAGCCTTCCACAAACGAACCCCTAATCGATACCATCTGAGGAACAAGAAGGACGAG  
 AGCTTGTACCCTCCAAACCTGTGAACAAGATTGTACGAGACCCCCAGACCCCTATACTGCAGACCAAT  
 ACCGTGCAAGGGCTGTGACCTGCAAAAAGTGCAGGAGAGAAAGGAGCCGAGGAAGTGTGAGAAAATGCAACA  
 ATACAAAATTCAAAAGCACGGGAACCTTGATCCAGAAATTTTGAAGTGGCCCATCTTGCCCAAGAGACCA  
 CCTGTTAAGCCTCCTACCCAGCCTGTTGGTTTTGATTTGAAATGAGAAACGAATTCATGAGCGAGAGT  
 CAAAGAAAAAACCGAAGATGAACAATTTGAATTCATTCCAGACCTTGCCTACTAAGATCTTGGAAGA  
 TGTTGTGGGTGTTCTGAAAAGAAGGTTATTCCAGCCACTGTCCCTAAGTACCAGTTTTTGCACCTGAAG  
 AACAGGATCCGAGTGCCTGTCAAAGAAGATGAGGAAGAGGAGAAACCAGTAGTGATAAAAGCTCAACCTG  
 TGCCACATTATGGGGTGCCTTATAAACCCCCCATCCCAGAGACAAGAAATGTGGAGGTGTGCCCGTTCTC  
 CTTTGATACCCGGGACAAAGAACGCCAGTTGCAGAAGGAGAAAAAATAAAGAAATGCAGAAAGGAGAG  
 GTGCCCAAGTTCAAGGCACCTTCTGTGCCCATTTTGACACCATTAACTGCCAGAGAAAAGGTAAGA  
 ATGCGACTCAAGCCGAGCCTTTCTCCTTGAGACAGACAAGAGAGGTGCCTACAAGGCCGAGATATGGAA  
 GCACCAGCTGGAAGAAGAGCAGAAGCAGCAGAAGGAAGCAGCTTGCTTCAAGGCTCGTCCAAACACTGTC  
 ATCTTCCAAGAGCCCTTTGTTCCCAAGAAAGAGAAAAATCAGCTGCTGAGAACCCTTCTGGTTCTCTAG  
 TTCAGGAACCTTTTCAGCTGGCCACCGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAAAATGGC  
 TGAGATGGAGGCTGGAAGTGCAGCAGTTGGCAGAAGTCAGGCAGCAGGAAGAGGAGCAGCAGAAGGAG  
 GAGCTGGCCAGGCTCCGGAAGGAACTGGTGCACAAGGCAATCCAATCCGAAAGTACTCAGCAGTGGAGG  
 TGAATCCAGTGAGCTGCCTCTGACCGTGCCGGTGTCTCCTAAGTCTCCACTCGGTTCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR208711 representing NM\_001107790  
Red=Cloning site Green=Tags(s)

MAQVPTAYSFDAPDFINFSLLDAEEDTENIDSWFDEKANLENKFLRQSGIGEPFQGKTSLRKAKLQQGC  
 VTPLKAVDNTYYKETEKENLQKQSIPSNDPCSLNAKRAVTGTTPIQPQRRSVRLSAQKDLEQKEKNHVAS  
 VEMKAKRCTAPTTDYPPNKKMKVSHKKKPEEEEEGSAPATSRKDETLERAKGKHTVPAVPPAREKTVKST  
 EEQELEKSLRMQQEVVEMRKKNEEFKKLALAGPGQPVKKSTSQVTKTVDFHFLTDERIKQHPKSQEYKE  
 VNFMSSELRKHSSTPARGTRGCTIIKPFNLSKGGKRTFDEAASTYVPIAQQVEAFHKRTPNRYHLRNKKDE  
 SLLPSKPVNKIVRDPQTPILQTKYRARAVTCKSAEKEAELEKLQYKFKARELDPRIFESGPILPKRP  
 PVKPTQPVGFDLEIEKRIHERESKKKPEDEQFEFHSRPCPTKILEDVVGVPKPKVIPATVPKSPVFALK  
 NRIRVPVKEDEEEKPVVIKAQVPVPHYGVYKPPIPETRNVEVCPFSFDTRDKERLQKEKKIKEMQKGE  
 VPKFKALVPHFDINLPEKKVNATQAEFSLQETDKRGAYKAEIWKHQLEEEQKQKEAACFKARPNTV  
 IFQEPFVPKKEKKSAAENPSGSLVQEPFLATEKRAKERQELEKKMAEMEAWKLQQLAEVRQEEEEQKE  
 ELARLRKELVHKANPIRKYSAVEVKSSELPLTVPVSPKFSTRFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001107790

**ORF Size:** 2232 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\\_001107790.1](#), [NP\\_001101260.1](#)

**RefSeq Size:** 3170 bp

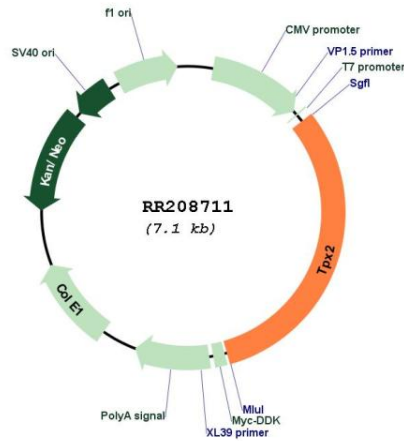
**RefSeq ORF:** 2235 bp

**Locus ID:** 311546

**Cytogenetics:** 3q41

**MW:** 85.5 kDa

**Product images:**



Circular map for RR208711