

## Product datasheet for **MR226353**

### **Tph2 (NM\_173391) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tph2 (NM_173391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tph2
Synonyms:	AU043594; Ntph
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226353 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGCCCGCAATGATGATGTTTTCCAGTAAATACTGGGCCAGGAGAGGTTGTCTTGGATTCTGCTG  
 TGCCAGAAGATCATCAGCTACTTGGCAGCTTAACACAAAATAAGGCTATCAAAGCGAGGACAAGAAAAG  
 CGGCAAAGAGCCCGCAAAGGCGACACCACAGAGAGCAGCAAGACAGCGGTAGTGTCTCCTTGAAGAAT  
 GAAGTTGGTGGGCTGGTAAAGCACTTAGACTATTCCAGGAAAAACATGTCAACATGCTTCATATCGAAT  
 CCAGGAGGTCCCAGCAAGAAGTCTGAAGTCGAAATCTTCGTGGACTGCGAATGTGGCAAAACGGAATT  
 CAATGAGCTCATCCAGTTGCTGAAATTTAGACCACCATTTGTGACCTGAATCCGCTGAGAGCATTGAG  
 ACGGAGGAAGAAGATCTCGAGGATGTCCGTGGTTCCTCGGAAGATCTCTGAGTTAGACAGATGCTCTC  
 ACCGAGTCTCATGTACGGCACCAGCTTGTATGCCGACCATCCAGGATTTAAGGACAATGTCTATCGACA  
 GAGGAGGAAGTATTTGTGGATGTGCCATGGGCTATAAATATGGTCAGCCCATCCAGGGTCGAGTAC  
 ACAGAAGAAGAGACTAAAACCTGGGGTGTGTGTTCCGGGAGCTCTCAAACCTCTACCCGACTCATGCTT  
 GCCGGGAGTACCTGAAAAACCTCCCCTGCTGACCAAGTACTGTGGCTACAGGGAAGACAACGTGCCGCA  
 ACTGGAAGACGTCTCATGTTTCTGAAAGAGCGATCTGGCTTACAGTGAGACCAGTGGCTGGCTACCTG  
 AGCCCAAGAGACTTCTGGCGGGCTGGCTACAGAGTATTCCTGCACCCAGTACGTGCCGCATGGCT  
 CCGACCCCTCTACCCCGGAACCAGATACATGCCATGAACTCTTGGGACACGTGCCACTGCTTGGCGA  
 TCCCAAGTTTGCTCAGTTTTCCAAGAGATAGGCTTAGCGTCTCTGGGAGCCTCAGATGAGGACGTTTCA  
 AACTAGCCACGTGCTATTTCTTCAAAATCGAGTTGCGCTTTCGCAAGCAAGAGGGTCAACTGCGGGCGT  
 ATGGAGCAGGTTACTTTTCGTCATCGGAGAAATGAAGCATGCTTTTCGACAAGGCGTGTGAAATC  
 CTTTGACCCAAAGACGACCTGCTTGCAGGAATGCCTAATCACCACCTTTCAGGACGCTTACTTTGTTTCG  
 GACAGTTTTGAAGAAGCCAAAGAAAAGATGAGGGACTTTGCAAAGTCAATTACCCGTCCTTCTCGGTAT  
 ACTTCAACCCCTACACGCAGAGCATTGAAATCTGAAAGACACCAGAAGTATTGAGAATGTGGTGCAGGA  
 CCTGCGCAGTATTTGAACACAGTGTGTGATGCCTTGAATAAAATGAACCAATATCTGGGGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226353 protein sequence  
 Red=Cloning site Green=Tags(s)

MQPAMMMFSSKYWARRGLSLDSAVPEDHQLLGSLTQNKAIKSEDKKSGKEPGKGDTESSKTAVVFLKN  
 EVGGLVKALRLFQEKHVNMLHIESRRSRSSSEVEIFVDCECGKTEFNELIQLLKFQTTIVTLNPPESI  
 WTEEDLEDVVPWFPRKISELDRCSRVLMYGTELDADHPGFKNVYRQRKYFVDVAMGYKYGQPIPRVEY  
 TEEETKTWGVVRELKLYPTHACREYLKPLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAGYL  
 SPRDFLAGLAYRVFHTQYVRHGSPLYTPEPDTCHELLGHVPLLADPKFAQFSQEIGLASLGASDEDVQ  
 KLATCYFFTIEFGLCKQEGQLRAYGAGLLSSIGELKHALSDKACVKSFPDKTTCLQECLITTFQDAYFVS  
 DSFEEAKEKMRDFAKSITRPFVYFNPTYSIEILKDTRSIENVVQDLRSDLNTVCDALNKMNQYLG

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_173391

**ORF Size:** 1467 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\\_173391.3](#), [NP\\_775567.2](#)
**RefSeq Size:** 2626 bp

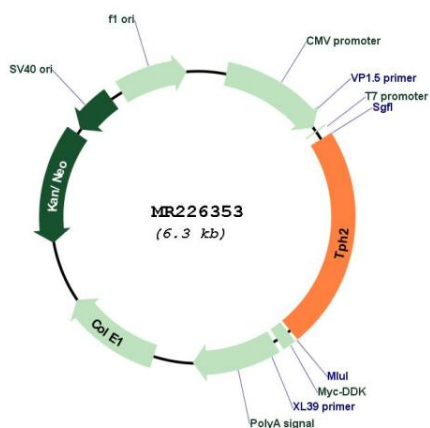
**RefSeq ORF:** 1467 bp

**Locus ID:** 216343

**UniProt ID:** [Q8CGV2](#)

Cytogenetics: 10 D2  
 MW: 55.9 kDa

**Product images:**



Circular map for MR226353