

## Product datasheet for **RN204384**

### **Tph1 (NM\_001100634) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tph1 (NM_001100634) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tph1
Synonyms:	Tph
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204384 representing NM\_001100634  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATTGAAGACAACAAGGAGAACAAGACCATTCTCAGAAAGGGGAGAGTACTCTCATCTTTTCT  
 TGAAGAATGAAGTTGGAGGACTCATAAAGCACTGAAAATCTTCCAGGAGAACCACGTGAACCTGTTACA  
 TATTGAGTCCCGAAAATCGAAGCGAAGAACTCAGAATTTGAGATTTTTGTGGACTGCGACATCAACCGA  
 GAACAGCTGAATGACATCTTTCCCTGTGAAGTCCCACACCACGGTCTCTGTGGACTCGCCCGATC  
 AGCTCCCTGAAAAGGAAGATGTTATGGAGACTGTCCCTTGGTTCCCAAAGAAGATTTCTGACCTGGACTT  
 CTGCGCCAACAGAGTGTGTTGTACGGATCCGAACTCGACGCGGACCATCTGGCTTCAAAGACAATGTC  
 TACCGTAGAAGACGAAAGTATTTGCGAGAGCTGGCTATGAACTACAAACATGGGGACCCATTCCCAAGA  
 TTGAATTCACGGAAGAGGAGATTAAGACCTGGGGACCATCTCCGAGAGCTGAACAACTCTACCCAAC  
 CCACGCTGCAGGGAGTACCTCAGAACTTCTCTGCTCTCAAATACTGTGGCTATCGGGAAGACAAC  
 GTCCCGCAACTGGAAGATGTCTCAACTTTTTAAAGAACGCACAGGGTTTTCCATCCGTCTGTGGCTG  
 GTTACCTCTACCGAGAGATTTCTGTACGGTTAGCCTTTGAGTCTTTCACTGCACTCAGTATGTGAG  
 ACACAGTTCGGATCCTCTCTATACCCAGAGCCAGACACCTGCCACGAACTTAGGCCACGTCCCTCTC  
 TTGGCTGAACCCAGTTTTGCTCAATTCTCCAAGAAATGGCCTGGCTTCTTTGGAGCTTCAGAGGAGA  
 CGGTTCCAGAACTGGCAACGTGCTACTTCTTCACTGTGGAGTTGGACTGTGCAAGCAAGATGGGCAGCT  
 GAGAGTCTTTGGTGCCGGCTGCTTCTTCCATCAGTGAAGCTCAGACATGCATTTCTGGACATGCCAAG  
 GTTAAGCCCTTTGATCCCAAGTTGCCTGCAAACAGGAATGTCTCATACAAGCTTCCAGGATGTCTACT  
 TTGTATCGGAGAGCTTTGAAGATGCAAAGGAGAAGATGAGAGAATTTGCCAAAACCGTGAAGCCCGCTT  
 TGGAGTGAAGTACAATCCGTACACACAGAGCATTCAAGTTCTGAGAGACAGCAAGAGCATAACCGCGCC  
 ATGAATGAGTTGCGGCATGACCTCGATGTCGTCATGATGCCCTTGTAGAGTCAGCAGGTGCCCCAGTG  
 TG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001100634  
**Insert Size:** 1335 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001100634.2](#), [NP\\_001094104.1](#)

**RefSeq Size:** 3897 bp

**RefSeq ORF:** 1335 bp

**Locus ID:** 24848

**UniProt ID:** [P09810](#)

**Cytogenetics:** 1q22

**Gene Summary:** catalyzes the conversion of l-tryptophan to 5-hydroxy-l-tryptophan; member of pterin-dependent aromatic amino acid hydroxylase family [RGD, Feb 2006]