

Product datasheet for **MC225965**

Tph1 (NM_001276372) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tph1 (NM_001276372) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tph1
Synonyms: Tph
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC225965 representing NM_001276372
Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGAAGACAACAAGGAGAACAAAGAGAACAAGACCATTCTCCGAAAGAGGGAGAGTGACTCTCA
TCTTCTCCTTGGAGAATGAAGTCGGAGGACTCATAAAAGTGCTGAAAATCTCCAGGAGAATCATGTGAG
CCTGTTACACATCGAGTCCCGAAATCAAAGCAAAGAAATTCAGAATTTGAGATATTTGTTGACTGCGAC
ATCAGCCGAGAACAGTTGAATGACATCTCCCCCTGCTGAAGTCGCACGCCACCGTCCTCTCGGTGGACT
CGCCCGATCAGCTCACTGCGAAGGAAGACGTTATGGAGACTGTCCCTTGGTTTCCAAAGAAGATTTCTGA
CCTGGACTTCTGCGCAAACAGAGTGCTGTTGTATGGATCCGAACTTGACGCCGACCACCTGTAATATG
TTTACAAAGTCACGCAGTGCGAATAACTTAAGTCAAACCTGAAGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3663_h10.zip
Restriction Sites: Sgfl-Mlul
ACCN: NM_001276372
Insert Size: 468 bp



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OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001276372.1, NP_001263301.1</u>
RefSeq Size:	628 bp
RefSeq ORF:	468 bp
Locus ID:	21990
Cytogenetics:	7 30.43 cM
Gene Summary:	<p>This gene encodes a member of the bipterin-dependent aromatic amino acid hydroxylase family. The encoded protein is one of two tryptophan hydroxylase enzymes that catalyze the first and rate limiting step in the biosynthesis of the hormone and neurotransmitter, serotonin. This gene is expressed in peripheral organs, while tryptophan hydroxylase 2 is expressed in neurons. The encoded protein is involved in the development of hypoxia-induced elevations in pulmonary pressures and pulmonary vascular remodeling, and has also been implicated as a regulator of immune tolerance. Disruption of this gene is associated with cardiac dysfunction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]</p> <p>Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.</p>