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Product datasheet for MC202539

Tph1 (NM_009414) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tph1 (NM_009414) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tph1
Synonyms:	Tph
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC072582 sequence for NM_009414
GCTACTTGAGAGACTAAAGCAGTCTTGCCTGGTCACTCAAGGCCAGTCTGAGCAATATAGTGAATCCCAA
ATTGCTCTGTGTGTGTTTGTGCGTGCGTGCACGAGTGCAAGCCAAGGTTTCAAGAGAGGCCAGAAGAGGG
TGTCAGATTCTCTGGTGCATGAGTTACAGCTGGCTGTGAACTGCCTGATGTCGGGGCTGGAAACTAAACT
CAGGCCCAAGAACAGCAAGTGCTCTTATCTGATGAGCCATCATCCCAGCCCCATGCCCAGCAGACATGGG
GGCTGTTAACTGAAACATTAGAAGTATGTCCACGGGCCTCCCCTTTTCTGAAGAGAAAGGGGAGAGGAAT
GCATGGAGGAGAGAGAAGGCGTGGAGGAAGGACTGAGAGGAGAGGAAGGACGAAAAACCGCAGTCTGGAT
GTAAAAATTCACCATGATTGAAGACAACAAGGAGAACAAAGAGAACAAAGACCATTCCTCCGAAAGAGGG
AGAGTGACTCTCATCTTCTCCTTGGAGAATGAAGTCGGAGGACTCATAAAAGTGCTGAAAATCTTCCAGG
AGAATCATGTGAGCCTGTTACACATCGAGTCCCGGAAATCAAAGCAAAGAAATTCAGAATTTGAGATATT
TGTTGACTGCGACATCAGCCGAGAACAGTTGAATGACATCTTCCCCCTGCTGAAGTCGCACGCCACCGTC
CTCTCGGTGGACTCGCCCGATCAGCTCACTGCGAAGGAAGACGTTATGGAGACTGTCCCTTGGTTTCCAA
AGAAGATTTCTGACCTGGACTTCTGCGCCAACAGAGTGCTGTTGTATGGATCCGAACTTGACGCCGACCA
CCCTGGCTTCAAAGACAATGTCTATCGTAGAAGACGAAAGTATTTTGCAGAGTTGGCTATGAACTACAAA
CATGGGGACCCCATTCCCAAGATTGAATTCACGGAAGAAGAGATTAAGACCTGGGGGACCATCTTCCGAG
AGCTAAACAAACTCTACCCGACCCACGCCTGCAGGGAGTACCTCAGAAACCTCCCTTTGCTCTCAAAATA
CTGTGGCTATCGGGAAGACAACATCCCGCAACTGGAGGATGTCTCCAACTTTTTAAAAGAACGCACTGGG
TTTTCCATCCGTCCTGTGGCTGGTTACCTCTCACCGAGAGATTTTCTGTCGGGGTTAGCCTTTCGAGTCT
TTCACTGCACTCAGTATGTGAGACACAGTTCAGATCCCCTCTACACTCCAGAGCCAGACACCTGCCATGA
ACTCCTAGGCCACGTTCCTCTCTTGGCTGAACCCAGTTTTGCTCAATTCTCCCAAGAAATTGGCCTGGCT
TCCCTTGGAGCTTCAGAGGAGACAGTTCAAAAACTGGCAACGTGCTACTTTTTCACTGTGGAGTTTGGGC
TGTGCAAACAAGATGGACAGCTGAGAGTCTTTGGGGCCGGCTTGCTTTCTTCCATCAGTGAACTCAAACA
TGCACTTTCTGGACATGCCAAAGTCAAGCCCTTTGATCCCAAGATTGCCTGTAAACAGGAATGTCTCATC
ACGAGCTTCCAGGATGTCTACTTTGTATCTGAGAGCTTTGAAGATGCAAAGGAGAAGATGAGAGAATTTG
CCAAGACCGTGAAGCGCCCGTTTGGACTGAAGTACAACCCGTACACACAGAGTGTTCAGGTTCTCAGAGA
CACCAAGAGCATAACTAGTGCCATGAATGAGTTGCGGTATGACCTTGATGTCATCAGTGATGCCCTCGCT
AGGGTCACCAGGTGGCCCAGTGTGTGATGGTTTCCAGTGCATATCCAAAAAGCCTTTGAGCATCAGTCTA
GAGCCAGGGCTAGTTCTTGCTTCCCCTGAAGACCTGCTTGGGGAGGGACAGCAGCTCCCAGCTTAGCAAT
GTCTCTCGCCTCTCTCCATATTCAATCACTCACTCTCTCTGAAAATGCACACCTGGAACTGCTTATCTTC
TACTTCTGTTTTGTCTTCTGGAACCTGCTGAGGGAAATATAGTTCACGTGCCACGTGATGCCCAGGAAAA
AAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_009414

Insert Size: 1344 bp

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).

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:	BC072582, AAH72582
RefSeq Size:	2047 bp
RefSeq ORF:	1344 bp
Locus ID:	21990
UniProt ID:	P17532
Cytogenetics:	7 30.43 cM
Gene Summary:	This gene encodes a member of the biopterin-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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.