

Product datasheet for **RC221254L4V**

Tryptophan Hydroxylase (TPH1) (NM_004179) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Tryptophan Hydroxylase (TPH1) (NM_004179) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Tryptophan Hydroxylase
Synonyms:	TPRH; TRPH
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004179
ORF Size:	1332 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221254).
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.
RefSeq:	NM_004179.1
RefSeq Size:	1335 bp
RefSeq ORF:	1335 bp
Locus ID:	7166
UniProt ID:	P17752
Cytogenetics:	11p15.1
Domains:	biopterin_H, ACT
Protein Families:	Druggable Genome



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Protein Pathways: Metabolic pathways, Tryptophan metabolism

MW: 50.8 kDa

Gene Summary: This gene encodes a member of the aromatic amino acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others.[provided by RefSeq, Apr 2009]