

Product datasheet for **SC300057**

Tyrosine Hydroxylase (TH) (NM_000360) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Tyrosine Hydroxylase (TH) (NM_000360) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TH |
| Synonyms: | DYT5b; DYT14; TYH |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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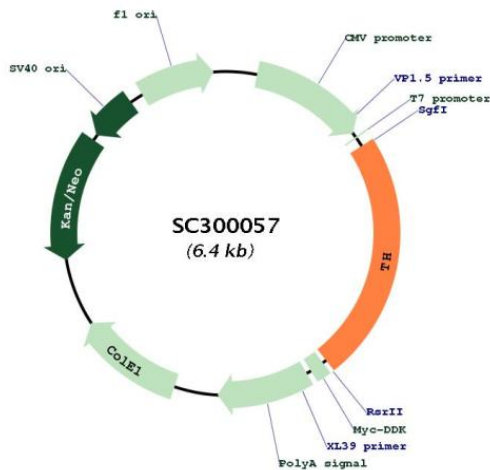
Fully Sequenced ORF: >SC300057 representing NM_000360.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCACCCCGACGCCACCACGCCACAGGCCAAGGGCTCCGCAGGGCCGTGTCTGAGCTGGACGCC
AAGCAGGCAGAGGCCATCATGTCCCCGGGTTTATTGGGCGCAGGCAGAGCCTCATCGAGGACCCCGC
AAGGAGCGGGAGCGCGGTGGCAGCAGCGGCCGTGCAGTCCCCTCGGAGCCCGGGGACCCCTGGAG
GCTGTGGCCTTTGAGGAGAAGGAGGGGAAGGCCGTGCTAAACCTGCTCTTCTCCCGAGGGCCACCAAG
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
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Restriction Sites: SgfI-RsrII

Plasmid Map:



ACCN: NM_000360

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| Insert Size: | 1494 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | NM_000360.3 |
| RefSeq Size: | 1817 bp |
| RefSeq ORF: | 1494 bp |
| Locus ID: | 7054 |
| UniProt ID: | P07101 |
| Cytogenetics: | 11p15.5 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Metabolic pathways, Parkinson's disease, Tyrosine metabolism |
| MW: | 55.6 kDa |
| Gene Summary: | <p>The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) uses a different donor splice site at the first coding exon and is missing an adjacent in-frame coding exon compared to transcript variant 1, resulting in an isoform (b) missing a 31 aa segment compared to isoform a.</p> |