

## Product datasheet for **SC318060**

### Dopamine beta Hydroxylase (DBH) (NM\_000787) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine beta Hydroxylase (DBH) (NM_000787) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine beta Hydroxylase
Synonyms:	DBM; ORTHYP1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000787 edited  
 ATGCCCGCCTCAGTCGCTGGGCCAGCCTGCCCGCCCCAGCATGCGGGAGGCAGCCTTC  
 ATGTACAGCACAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCGCACTGCAGGGCTCG  
 GCTCCCGTGAGAGCCCCCTCCCCTATCACATCCCCCTGGACCCGGAGGGTCCCTGGAG  
 CTCTCATGGAATGTCAGCTACACCCAGGAGGCCATCCATTTCCAGCTCCTGGTGGGAGG  
 CTCAAGGCTGGCGTCTGTTTGGGATGTCCGACCGTGGCGAGCTTGAGAACGCAGATCTC  
 GTGGTGCCTGGACCCGATGGGGACACTGCCTATTTTGGCGACCGCTGGAGTGACCAGAAG  
 GGGCAGATCCACCTGGATCCCCAGCAGGACTACCAGCTGCTGCAGGTGCAGAGGACCCCA  
 GAAGGCCTGACCCCTGCTTTTCAAGAGGCCCTTTGGCACCTGCACCCCAAGGATTACCTC  
 ATTGAGGACGGCACTGTCCACTTGGTCTACGGGATCCTGGAGGAGCCGTTCCGGTCACTG  
 GAGGCCATCAACGGCTCGGGCTGCAGATGGGGCTGCAGAGGGTGCAGCTCCTGAAGCCC  
 AATATCCCGAACCGGAGTTGCCCTCAGACGCGTGCACCATGGAGGTCCAAGCTCCCAAT  
 ATCCAGATCCCCAGCCAGGAGACCAGTACTGGTGTACATTAAGGAGCTTCCAAAGGGC  
 TTCTCTCGGCACCACATTATCAAGTACGAGCCCATCGTACCAAGGGCAATGAGGCCCTT  
 GTCCACCACATGGAAGTCTTCCAGTGCGCCCCGAGATGGACAGCGTCCCCACTTCAGC  
 GGGCCCTGCGACTCCAAGATGAAACCCGACCGCTCAACTACTGCCGCCACGTGTGGCC  
 GCCTGGGCCCTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCCTTGCTTCGGG  
 GGTCCAGGGTCTCCAGATATCTCCGCCTGGAAGTTCACTACCACAACCCACTGGTGATA  
 GAAGGACGAAACGACTCCTCAGGCATCCGCTTGTACTACACAGCCAAGTGCGGCGCTTC  
 AACGGGGGATCATGGAGCTGGGACTGGTGTACACGCCAGTGTGGCCATTCCACCACGG  
 GAGACCGCCTTCACTCCTACTGGCTACTGCACGGACAAGTGCACCCAGCTGGCACTGCCT  
 CCCTCCGGGATCCACATCTTCCGCTCTCAGCTCCACACACACCTGACTGGGAGAAAGGTG  
 GTACAGTGTGGTCCGGGACGGCCGGGAGTGGGAGATCGTGAACCAGGACAATCACTAC  
 AGCCCTCACTTCCAGGAGATCCGCATGTTGAAGAAGGTGCTGTCGGTCCATCCGGGAGAT  
 GTGCTCATCACCTCTGCACGTACAACACGGAAGACCGGGAGCTGGCCACAGTGGGGGGC  
 TTCGGGATCCTGGAGGAGATGTGTCAACTACGTGCACTACTACCCCCAGACGCAGCTG  
 GAGCTCTGCAAGAGCGTGTGGACGCCGCTTCCCTGCAGAAGTACTTCCACCTCATCAAC  
 AGGTTCAACAACGAGGATGTCTGCACCTGCCCTCAGGCGTCCGTGTCTCAGCAGTTACC  
 TCTGTTCCCTGGAACCTTCAACCGCGACGTACTGAAGGCCCTGTACAGCTTCGCGCCC  
 ATCTCCATGCACTGCAACAAGTCTCAGCCGTCGGCTTCCAGGGTGAATGGAACCTGCAG  
 CCCCTGCCAAGGTCATCTCCACTGGAAGAGCCACCCACAGTGCCCCACCAGCCAG  
 GGCCGAAGCCCTGCTGGCCCCACCGTTGTGAGCATTGGTGGGGGCAAGGCTGAGGGGGG  
 ACCTACTCCTCCCCCTCCTCCATGCTGTCCCTGTGGGCTCACACCGGCACTGTGCACTCT  
 ACTCTGGACGATCCCCATGGAACAGCCCTGCATGCCAGGATGAAGGGGCCAGACCACG  
 CCCCTGCCTGAGACCACGGTCCAATCCAGCCTTCTTCCCCAGGGTCCCCTGCATGGCTG  
 AGAGGGTGTGGGTGCCCTGTTGACCTACCCTGGACCGAGTGGACCACGACCTCGTCCATT  
 TAAACCCGGTACTCAGTGCAGGGACAGCCTGCACAGTGGTCCAGGGTCCAGCCCTCCG  
 CCAGCCCTGTTCCGCCTCACTGGGTGTGGCCTGGCTTCTGGGACAGGCACCATGCTGGG  
 CGGGGTGTGGAATCACCGGGAACGCCCCCGCCCCGCCCCGCTGCTCCCGTGTGCAGCG  
 GGTGCGGGTGCCGCTTAAACATTTCCCTGCTGAGTGGCTCGTGTTCACAGTGGGCGGCT  
 TCCTGCGACGGAGGACGACCAGGCATTTAGCTAGTTAGAGACTCGCCTGGGAAATTGC  
 TCCATTCTGAGTAAACAGATATTTTCGCCACCTAAAGGGAAGCCCTGACAACAATAT  
 CACCAAAAGACGAGGGCGCAAAGATCCAGCGGGGCTTCTGGGCGCGGTTCCACGTGGGG  
 TGGAATTATTAGCACCAGCTTGTCTCTGCGGTGGGGCCAGCGCTGAACAGACCGGGG  
 TGGAGTCAAGGCTGTGCTTCCGCGTGGTCTGCCACTTAGGGAGTGTGCCTTGGGCGGG  
 CCATTTACATTCTGACCCCTACTTTTCTCATCTGTAATA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000787

**Insert Size:** 2700 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000787.3</a></u> , <u><a href="#">NP_000778.3</a></u>
<b>RefSeq Size:</b>	2812 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	1621
<b>UniProt ID:</b>	<u><a href="#">P09172</a></u>
<b>Cytogenetics:</b>	9q34.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Tyrosine metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. The encoded protein, expressed in neurosecretory vesicles and chromaffin granules of the adrenal medulla, catalyzes the conversion of dopamine to norepinephrine, which functions as both a hormone and as the main neurotransmitter of the sympathetic nervous system. The enzyme encoded by this gene exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. Mutations in this gene cause dopamine beta-hydroxylase deficiency in human patients, characterized by deficits in autonomic and cardiovascular function, including hypotension and ptosis. Polymorphisms in this gene may play a role in a variety of psychiatric disorders. [provided by RefSeq, Aug 2017]