

## Product datasheet for **SC300059**

### Tyrosinase (TYR) (NM\_000372) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tyrosinase (TYR) (NM_000372) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tyrosinase
Synonyms:	ATN; CMM8; OCA1; OCA1A; OCAIA; SHEP3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000372 edited  
 ATGCTCCTGGCTGTTTTGTAAGAACCTGATGGAGAAGGAATGCTGTCCACCGTGGAGC  
 CCTAGAGCCTGTGTCTCCTCTAAGAACCTGATGGAGAAGGAATGCTGTCCACCGTGGAGC  
 GGGGACAGGAGTCCCTGTGGCCAGCTTTTCAGGCAGAGGTTCTGTGAGAATATCCTTCTG  
 TCCAATGCACCACTTGGGCTCAATTTCCCTTACAGGGGTGGATGACCGGGAGTCGTGG  
 CCTTCCGTCTTTTATAATAGGACCTGCCAGTCTCTGGCAACTTCATGGGATTCAACTGT  
 GGAAACTGCAAGTTTGGCTTTTGGGGACCAAACTGCACAGAGAGAGACTCTTGGTGAGA  
 AGAAACATCTTCGATTTGAGTGCCCGAGAGAAGGACAAAATTTTTGCCTACCTCACTTTA  
 GCAAAGCATACCATCAGCTCAGACTATGTCATCCCATAGGGACCTATGGCCAAATGAAA  
 AATGGATCAACACCCATGTTAACGACATCAATATTTATGACCTCTTTGTCTGGATGCAT  
 TATTATGTGTCAATGGATGCACTGCTTGGGGGATCTGAAATCTGGAGAGACATTGATTTT  
 GCCCATGAAGCACCAGCTTTTCTGCCTTGGCATAGACTCTTCTTGTGCGGTGGGAACA  
 GAAATCCAGAAGCTGACAGGAGATGAAACTTCACTATTCATATTTGGGACTGGCGGGAT  
 GCAGAAAAGTGTGACATTTGCACAGATGAGTACATGGGAGGTGACACCCCAAAATCCT  
 AACTTACTCAGCCAGCATCATTCTTCTCTTGGCAGATTGTCTGTAGCCGATTGGAG  
 GAGTACAACAGCCATCAGTCTTTATGCAATGGAACGCCCGAGGGACCTTACGGCGTAAT  
 CCTGAAAACCATGACAAATCCAGAACCCCAAGGCTCCCTCTTACAGTGTAGTAATTT  
 TGCTGAGTTTGACCAATATGAATCTGGTTCCATGGATAAAGCTGCCAATTTACAGCTTT  
 AGAAATACACTGGAAGGATTTGCTAGTCCACTTACTGGGATAGCGGATGCCTCTCAAAGC  
 AGCATGCACAATGCCTTGACATCTATATGAATGGAACAATGTCCAGGTACAGGGATCT  
 GCCAACGATCCTATCTTCTTCTTACCATGCATTTGTTGACAGTATTTTGGAGCAGTGG  
 CTCCGAAGGCACCGTCTCTTCAAGAAGTTTATCCAGAAGCCAATGCACCCATTGGACAT  
 AACCGGGAATCCTACATGGTTCTTTTATACCACTGTACAGAAAATGGTGATTTCTTTATT  
 TCATCCAAAGATCTGGGCTATGACTATAGCTATCTACAAGATTACAGCCAGACTTTTT  
 CAAGACTACATTAAGTCCTATTTGGAACAAGCGAGTCGGATCTGGTCATGGCTCCTTGGG  
 GCGGCGATGGTAGGGGCCGTCCTCACTGCCCTGCTGGCAGGGCTTGTGAGCTTGTGTGT  
 CGTCACAAGAGAAAGCAGCTTCTGAAGAAAAGCAGCCACTCCTCATGGAGAAAGAGGAT  
 TACCACAGCTTGTATCAGAGCCATTTATAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000372

**Insert Size:** 1700 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:** The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM\_000372.3.

**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).

<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>	<a href="#">NM_000372.3</a> , <a href="#">NP_000363.1</a>
<b>RefSeq Size:</b>	1964 bp
<b>RefSeq ORF:</b>	1590 bp
<b>Locus ID:</b>	7299
<b>UniProt ID:</b>	<a href="#">P14679</a>
<b>Cytogenetics:</b>	11q14.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Melanogenesis, Metabolic pathways, Riboflavin metabolism, Tyrosine metabolism
<b>Gene Summary:</b>	The enzyme encoded by this gene catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The enzyme has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this gene result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation. The human genome contains a pseudogene similar to the 3' half of this gene. [provided by RefSeq, Oct 2008]