

## Product datasheet for **MC218263**

### **Tyrp1 (NM\_031202) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tyrp1 (NM_031202) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tyrp1
Synonyms:	b; brown; isa; Oca3; TRP-1; TRP1; Tyrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC218263 representing NM\_031202  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATCTTACAACGTCCTCCCCCTAGCCTATATCTCCCTTTTCTGATGCTGTTTTATCAGGTTGGG  
 CTCAGTTTCCACGAGAGTGTGCCAATATTGAGGCTCTGAGACGTGGGGTGTGTTGCCAGACCTGCTCCC  
 TTCTCTGGACCGGGACTGACCCTTGTGGCTCATCATCAGGAAGAGGCAGGTGTGTGGCTGTGATTGCA  
 GACTCCCAGCCCCACAGCCGCCATTATCCCACGATGGTAAAGATGACCGAGAAGCCTGGCCTCTGAGGT  
 TCTTTAATAGAACATGTCAGTGAATGATAATTTCTCAGGACACAACCTGTGGGACTTGCCGCTCTGGGTG  
 GAGAGGAGCTGCATGCAACCAGAAAATTCTCACAGTCAGGAGAAATCTTCTAGACTTAAGTCCAGAAGAA  
 AAGAGCCACTTTGTCAGGGCCTTGATATGGCGAAGCGCACAACTCACCTCAATTTGTCATTGCCACAA  
 GGAGGTTAGAAGACATACTGGGACCAGATGGCAACACACCACAATTTGAGAACATTTCCGTTTATAACTA  
 CTTTGTGGACACACTATTATTCAGTCAAAAAACCTTCTCGGGACAGGACAGGAAAGCTTTGGGGAT  
 GTGGATTTCTCTACGAAGGACCCGCTTTTCTCATGTCAGGACAGGTACCATCTGCTGCAGCTGGAGAGAG  
 ACATGCAGGAGATGCTGCAGGAGCCTTCTTCTCCCTTCTTACTGGAATTTTGCAACTGGGAAAAACGT  
 CTGCGATGTCTGCACTGATGACTTGATGGGATCCAGAAGCAACTTCGATTCTACTCTTATAAGCCCCAAC  
 TCTGTCTTTTCTCAATGGAGAGTGGTCTGTGAATCCTTGGAGAGTACGATACCTGGGAACACTTTGTA  
 ACAGCACTGAGGGTGGACCAATCAGGAGAAACCCAGCTGGAAATGTAGGGAGACCAGCAGTGCAGCGTCT  
 TCCTGAGCCACAGGATGTCACTCAGTGCCTGGAGTCCGTGTATTTGACACACCTCCTTTTTATTCCAAT  
 TCTACAGACAGTTTTTCAAATACAGTGAAGGTTACAGTGTCTCCACGGGAAAATATGACCCTGCTGTTT  
 GAAGCCTTCACAACCTGGCCCACCTTCTCCTGAATGGAACGGGAGGACAAACCCATTTGCTCCCAATGA  
 TCCTATTTTTGTCTCCTGCACACTTTCACTGATGCGGTCTTTGACGAATGGCTAAGGAGGTATAACGCC  
 GATATTTCTACCTTCCCCTTGGAAAACGCACCTATTGGACATAACAGGCAATACAACATGGTGCCATTCT  
 GGCCTCCAGTTACCAACACAGAAATGTTTGTACTGCTCCAGACAATCTGGGATATGCTTATGAAGTTCA  
 ATGGCCAGGTGAGGAGTTACTGTATCTGAAATCATTACCATTGCTGTAGTGGCTGCGTTGTTACTTGT  
 GCTGCCATTTTCGGGGTTGCTTCTGTCTGATCCGTTCTAGAAGCACCAAGAATGAAGCCAACAGCCTC  
 TCCTCACTGATCACTATCAACGCTATGCTGAGGACTATGAGGAGCTCCCGAATCTAACCCTCCATGGT  
**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_031202  
**Insert Size:** 1614 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [NM\\_031202.3](#), [NP\\_112479.1](#)

**RefSeq Size:** 2755 bp

**RefSeq ORF:** 1614 bp

**Locus ID:** 22178

**UniProt ID:** [P07147](#)

**Cytogenetics:** 4 37.89 cM

**Gene Summary:** Plays a role in melanin biosynthesis (PubMed:2245916). Catalyzes the oxidation of 5,6-dihydroxyindole-2-carboxylic acid (DHICA) into indole-5,6-quinone-2-carboxylic acid (PubMed:7813420). May regulate or influence the type of melanin synthesized (PubMed:7813420, PubMed:2245916). Also to a lower extent, capable of hydroxylating tyrosine and producing melanin (PubMed:1537333).[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.