

## Product datasheet for **MC228215**

### **Tyrp1 (NM\_001282014) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tyrp1 (NM_001282014) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tyrp1
Synonyms:	b; brown; isa; Oca3; TRP-1; TRP1; Tyrp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228215 representing NM\_001282014  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATCTTACAACGTCTCCCTAGCCTATATCTCCCTTTTCTGATGCTGTTTTATCAGTTTGGG  
 CTCAGTTTCCACGAGAGTGTGCCAATATTGAGGCTCTGAGACGTGGGGTGTGTTGCCAGACCTGCTCCC  
 TTCTCTGGACCGGGACTGACCCTTGTGGCTCATCATCAGGAAGAGGCAGGTGTGTGGCTGTGATTGCA  
 GACTCCCAGCCCCACAGCCGCCATTATCCCACGATGGTAAAGATGACCGAGAAGCCTGGCCTCTGAGGT  
 TCTTTAATAGAACATGTCAGTGAATGATAATTTCTCAGGACACAACCTGTGGACTTGCCGTCTGGGTG  
 GAGAGGAGCTGCATGCAACCAGAAAATTCTCACAGTCAGGAGAAATCTTCTAGACTTAAGTCCAGAAGAA  
 AAGAGCCACTTTGTCAGGGCCTTGATATGGCGAAGCGCACAACTCACCTCAATTTGTCATTGCCACAA  
 GGAGGTTAGAAGACATACTGGGACCAGATGGCAACACACCACAATTTGAGAATTTCCGTTTATAACTA  
 CTTTGTGGACACACTATTATTCAGTCAAAAAACCTTCTCGGACAGGACAGGAAAGCTTTGGGGAT  
 GTGGATTTCTCTACGAAGGACCCGCTTTTCTCATGTCAGGACAGGTACCATCTGCTGCAGCTGGAGAGAG  
 ACATGCAGGAGATGCTGCAGGAGCCTTCTTCTCCCTTCTTACTGGAATTTGCAACTGGGAAAAACGT  
 CTGCGATGTCTGCACTGATGACTTGATGGGATCCAGAAGCAACTTCGATTCTACTCTTATAAGCCCCAAC  
 TCTGTCTTTTCTCAATGGAGAGTGGTCTGTGAATCCTTGGAAAGAGTACGATACCTGGGAACACTTTGTA  
 ACAGCACTGAGGGTGGACCAATCAGGAGAAACCAGCTGGAAATGTAGGGAGACCAGCAGTGCAGCGTCT  
 TCCTGAGCCACAGGATGTCACTCAGTGCCTGGAGTCCGTGTATTTGACACACCTCCTTTTATTCCAAT  
 TCTACAGACAGTTTTTCGAAATACAGTGAAGGTTACAGTGTCTCCACGGGAAAATATGACCCTGCTGTTT  
 GAAGCCTTCAACCTGGCCACCTCTTCTGAATGGAACGGGAGGACAAACCCATTTGTCTCCCAATGA  
 TCCTATTTTTGTCTCCTGCACACTTTCAGTGTGCGGTCTTTGACGAATGGCTAAGGAGGTATAACGCC  
 GATATTTCTACCTTCCCGTTGGAAAACGCACCTATTGGACATAACAGGCAATACAACATGGTGCCATTCT  
 GGCTCCAGTTACCAACACAGAAATGTTTGTACTGCTCCAGACAATCTGGGATATGCTTATGAAGTTCA  
 ATGGCCAGGTGAGGAGTTACTGTATCTGAAATCATTACCATTGCTGTAGTGGCTGCGTTGTACTTGTGA  
 GCTGCCATTTTCGGGGTTGCTTCTGTCTGATCCGTTCTAGAAGCACCAAGAATGAAGCCAACAGCCTC  
 TCCTCACTGATCACTATCAACGCTATGCTGAGGACTATGAGGAGCTCCCGAATCCTAACCACTCCATGGT  
**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001282014
- Insert Size:** 1614 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001282014.1](#), [NP\\_001268943.1](#)

**RefSeq Size:** 2740 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 (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.