

Product datasheet for **MC228216**

Tyrp1 (NM_001282015) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyrp1 (NM_001282015) 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: >MC228216 representing NM_001282015
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATCTTACAACGTCTCCCTAGCCTATATCTCCCTTTTCTGATGCTGTTTTATCAGGTTGGG
 CTCAGTTTCCACGAGAGTGTGCCAATATTGAGGCTCTGAGACGTGGGGTGTGTTGCCAGACCTGCTCCC
 TTCTCTGGACCGGGACTGACCCTTGTGGCTCATCATCAGGAAGAGGCAGGTGTGTGGCTGTGATTGCA
 GACTCCCAGCCCCACAGCCGCCATTATCCCACGATGGTAAAGATGACCGAGAAGCCTGGCCTCTGAGGT
 TCTTTAATAGAACATGTCAGTGAATGATAATTTCTCAGGACACAACCTGTGGACTTGCCGTCTGGGTG
 GAGAGGAGCTGCATGCAACCAGAAAATTCTCACAGTCAGGAGAAATCTTCTAGACTTAAGTCCAGAAGAA
 AAGAGCCACTTTGTCAGGGCCTTGATATGGCGAAGCGCACAACCTCACCTCAATTTGTCATTGCCACAA
 GGAGGTTAGAAGACATACTGGGACCAGATGGCAACACACCACAATTTGAGAACATTTCCGTTTATAACTA
 CTTTGTGGACACACTATTATTCAGTCAAAAAACCTTCTCGGACAGGACAGGAAAGCTTTGGGGAT
 GTGGATTTCTCTACGAAGGACCCGCTTTTCTCATGTCAGGACAGGTACCATCTGCTGCAGCTGGAGAGAG
 ACATGCAGGAGATGCTGCAGGAGCCTTCTTCTCCCTTCTTACTGGAATTTGCAACTGGGAAAAACGT
 CTGCGATGTCTGCACTGATGACTTGATGGGATCCAGAAGCAACTTCGATTCTACTCTTATAAGCCCCAAC
 TCTGTCTTTTCTCAATGGAGAGTGGTCTGTGAATCCTTGGAAAGAGTACGATACCTGGGAACACTTTGTA
 ACAGCACTGAGGGTGGACCAATCAGGAGAAACCCAGCTGGAAATGTAGGGAGACCAGCAGTGCAGCGTCT
 TCCTGAGCCACAGGATGTCACTCAGTGCCTGGAGTCCGTGTATTTGACACACCTCCTTTTATTCCAAT
 TCTACAGACAGTTTTTCGAAATACAGTGAAGGTTACAGTGTCTCCACGGGAAAATATGACCCTGCTGTTT
 GAAGCCTTCAACCTGGCCACCTTCTCCTGAATGGAACGGGAGGACAAACCCATTTGTCTCCCAATGA
 TCCTATTTTTGTCTCCTGCACACTTTCCTGATGCGGTCTTTGACGAATGGCTAAGGAGGTATAACGCC
 GATATTTCTACCTTCCCGTTGGAAAACGCACCTATTGGACATAACAGGCAATACAACATGGTGCCATTCT
 GGCTCCAGTTACCAACACAGAAATGTTTGTACTGCTCCAGACAATCTGGGATATGCTTATGAAGTTCA
 ATGGCCAGGTGAGGATTTACTGTATCTGAAATCATTACCATTGCTGTAGTGGCTGCGTTGTACTTGTGA
 GCTGCCATTTTCGGGGTTGCTTCTGTCTGATCCGTTCTAGAAGCACCAAGAATGAAGCCAACAGCCTC
 TCCTCACTGATCACTATCAACGCTATGCTGAGGACTATGAGGAGCTCCCGAATCTAACCACTCCATGGT
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001282015

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_001282015.1](#), [NP_001268944.1](#)

RefSeq Size: 2734 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 (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.