

Product datasheet for **MC217582**

Tyr (NM_011661) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyr (NM_011661) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tyr
Synonyms:	albino; c; Oca1; skc35
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217582 representing NM_011661
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTTGGCTGTTTTGTATTGCCTTCTGTGGAGTTCCAGATCTCTGATGGCCATTTCTCAGACCT
 GTGCTCCTCTAAGAAGTTGTTGGCAAAAGAATGCTGCCACCATGGATGGGTGATGGGAGTCCCTGCGG
 CCAGCTTTCAGGCAGAGTTCTGCCAGGATATCCTTCTGTCCAGTGCACCATCTGGACCTCAGTCCCC
 TTCAAAGGGTGGATGACCGTGAGTCTGGCCCTCTGTGTTTTATAATAGGACCTGCCAGTCTCAGGCA
 ACTTCATGGGTTCAACTGCGGAAACTGTAAGTTGGATTTGGGGCCCAAATTGTACAGAGAAGCGAGT
 CTTGATTAGAAGAAACATTTTTGATTTGAGTGTCTCCGAAAAGAATAAGTTCTTTTCTTACCTCACTTTA
 GCAAAACATACTATCAGCTCAGTCTATGTCATCCACAGGCACCTATGGCCAAATGAACAATGGGTCAA
 CACCCATGTTAATGATATCAACATCTACGACCTTTGTATGGATGCATTACTATGTGTCAAGGGACAC
 ACTGCTTGGGGCTCTGAAATATGGAGGGACATTGATTTGCCCATGAAGCACCAGGTTTCTGCCTTGG
 CACAGACTTTTCTGTTATTGTGGGAACAAGAAATTCGAGAACTAACTGGGGATGAGAACTCACTGTTT
 CATACTGGGATTGGAGAGATGCAGAAAAGTGTGACATTTGCACAGATGAGTACTTGGGAGGTCGTCACCC
 TGAAAATCCTAACTTACTCAGCCAGCATCCTTCTTCTCCTCTGGCAGATCATTGTAGCAGATCAGAA
 GAGTATAATAGCCATCAGGTTTTATGCGATGGAACACCTGAGGGACCACTATTACGTAATCCTGAAACC
 ATGACAAAGCCAAACCCAGGCTCCCATCTTCAGCAGATGTGGATTTTGTCTGAGTTTGACCCAGTA
 TGAATCTGGATCAATGGATAGAAGTCCCAATTTAGCTTTAGAAACACACTGGAAGGATTTGCCAGTCCA
 CTCACAGGGATAGCAGATCCTTCTCAAAGTGCATGCACAATGCCTTACATATCTTTATGAATGGAACAA
 TGTCCCAAGTACAGGGATCGGCCAACGATCCCATTTTTCTTCTTACCATGCTTTTGTGGACAGTATTT
 TGAACAATGGCTGCGAAGGCACCGCCCTCTTTTGGAAAGTTTACCCAGAAGCCAATGCACCTATCGGCCAT
 AACAGAGACTCTTACATGGTTCTTTCATACCGCTCTATAGAAATGGTGATTTCTTCATAACATCCAAGG
 ATCTGGGATATGACTACAGCTACCTCCAAGAGTGCAGATCCAGGCTTTTACAGAAATTATATTGAGCCTTA
 CTTGGAACAAGCCAGTCGTATCTGGCCATGGCTTCTTGGGGCAGCACTGGTGGGAGCTGTTATTGCTGCA
 GCTCTCTGGGCTTAGCAGTAGGCTATGCCTTCAGAAGAAGAAGAAGAAGCAACCCAGGAGGAAA
 GGCAGCCACTCCTCATGGACAAAGACGACTACCACAGCTTGTGTATCAGAGCCATCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_011661

Insert Size: 1602 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 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:	<ol style="list-style-type: none">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:	<u>NM_011661.5</u> , <u>NP_035791.1</u>
RefSeq Size:	6042 bp
RefSeq ORF:	1602 bp
Locus ID:	22173
UniProt ID:	<u>P11344</u>
Cytogenetics:	7 49.01 cM
Gene Summary:	<p>This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the initial and rate limiting step in the cascade of reactions leading to melanin production from tyrosine. In addition to hydroxylating tyrosine to DOPA (3,4-dihydroxyphenylalanine), also catalyzes the oxidation of DOPA to DOPA-quinone, and possibly the oxidation of DHI (5,6-dihydroxyindole) to indole-5,6 quinone (PubMed:2494997, PubMed:2517217, PubMed:1537333).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>