

Product datasheet for **MR230426**

Tyrp1 (NM_001282014) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyrp1 (NM_001282014) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230426 representing NM_001282014
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATCTTACAACGTCCTCCCCCTAGCCTATATCTCCCTTTTCTGATGCTGTTTTATCAGGTTTGGG
 CTCAGTTTCCACGAGAGTGTGCCAATATTGAGGCTCTGAGACGTGGGGTGTGTTGCCAGACCTGCTCCC
 TTCTCTGGACCGGGACTGACCCTTGTGGCTCATCATCAGGAAGAGGCAGGTGTGTGGCTGTGATTGCA
 GACTCCCAGCCCCACAGCCGCCATTATCCCACGATGGTAAAGATGACCGAGAAGCCTGGCCTCTGAGGT
 TCTTTAATAGAACATGTCAGTGAATGATAATTTCTCAGGACACAACCTGTGGGACTTGCCGCTCTGGGTG
 GAGAGGAGCTGCATGCAACCAGAAAATTCTCACAGTCAGGAGAAATCTTCTAGACTTAAGTCCAGAAGAA
 AAGAGCCACTTTGTCAGGGCCTTGATATGGCGAAGCGCACAACTCACCTCAATTTGTCATTGCCACAA
 GGAGGTTAGAAGACATACTGGGACCAGATGGCAACACACCACAATTTGAGAACATTTCCGTTTAACTA
 CTTTGTGGACACACTATTATTCAGTCAAAAAACCTTCTCGGACAGGACAGGAAAGCTTTGGGGAT
 GTGGATTTCTCTACGAAGGACCCGCTTTTCTCATGACAGGTACCATCTGCTGCAGCTGGAGAGAG
 ACATGCAGGAGATGCTGCAGGAGCCTTCTTCTCCCTTCTTACTGGAATTTGCAACTGGGAAAAACGT
 CTGCGATGTCTGCACTGATGACTTGATGGGATCCAGAAGCAACTTCGATTCTACTCTTATAAGCCCCAAC
 TCTGTCTTTTCTCAATGGAGAGTGGTCTGTGAATCCTTGGAAAGAGTACGATACCTGGGAACACTTTGTA
 ACAGCACTGAGGGTGGACCAATCAGGAGAAACCCAGCTGGAAATGTAGGGAGACCAGCAGTGCAGCGTCT
 TCCTGAGCCACAGGATGTCACTCAGTGCCTGGAGTCCGTGTATTTGACACACCTCTTTTATTCCAAT
 TCTACAGACAGTTTTTCGAAATACAGTGAAGGTTACAGTGTCTCCACGGGAAAATATGACCTGCTGTT
 GAAGCCTTCAACAACCTGGCCACCTCTTCTGAATGGAACGGGAGGACAAACCCATTTGTCTCCCAATGA
 TCCTATTTTTGTCTCCTGCACACTTTCCTGATGCGGTCTTTGACGAATGGCTAAGGAGGTATAACGCC
 GATATTTCTACCTTCCCGTTGGAAAACGCACCTATTGGACATAACAGGAATACAACATGGTGCCATTCT
 GGCTCCAGTTACCAACACAGAAATGTTTGTACTGCTCCAGACAATCTGGGATATGCTTATGAAGTTCA
 ATGGCCAGGTGAGGAGTTACTGTATCTGAAATCATTACCATTGCTGTAGTGGCTGCGTTTACTTGTGA
 GCTGCCATTTTCGGGGTGTCTTGTCTGATCCGTTCTAGAAGCACCAAGAATGAAGCCAACAGCCTC
 TCCTCACTGATCACTATCAACGCTATGCTGAGGACTATGAGGAGCTCCCGAATCTAACCACTCCATGGT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230426 representing NM_001282014
 Red=Cloning site Green=Tags(s)

MKSYNVLPLAYISLFLMLFYQVWAQFPRECANIEALRRGVCCPDLLPSSGPGTDPGSSSGRRCVAVIA
 DSRPHSRHYPHDGKDDREAWPLRFFNRTCQCNDNFSGHNCGTCRPGWRGAACNQKILTVRRNLLDLSP
 KSHFVRALDMAKRTTHPQFVIATRRELDILGPDGNTQPENISVYNYFVWTHYYSVKKFTLGTGQESFGD
 VDFSHEGPAFLTWHRYHLLQLERDMQEMLQEPSFSLPYWNFATGKNVCDVCTDDLMSRSNFDSTLISPN
 SVFSQWRVVCESLEEYDTLGTLCNSTEGGPIRRNPAGNVGRPVAQRLPEPQDVTQCLEVRVFDTPPFYSN
 STDSFRNTVEGYSAPTGYDPAVRSLNLAHLFLNGTGGQTHLSPNDPIFVLLHTFTDAVFDEWLRRYNA
 DISTFPLENAPIGHNQRQYNMVFPVPTNTEMFVTAPDNLGYAYEVQWPGQEFTVSEIITIAVVAALLLV
 AAIFGVASCLIRSRSTKNEANQPLLTDHYQRYAEDYEELPNPNHSMV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001282014

ORF Size: 1611 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

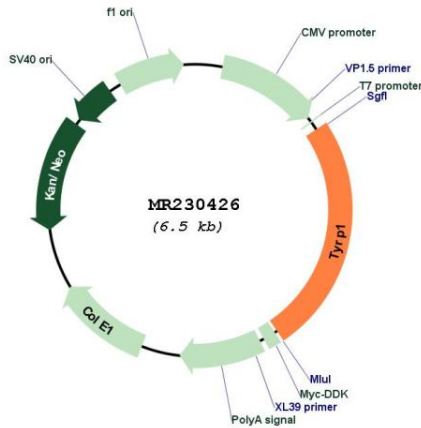
UniProt ID: [P07147](#)

Cytogenetics: 4 37.89 cM

MW: 60.8 kDa

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]

Product images:



Circular map for MR230426