

Product datasheet for **MR225860**

Tyr (NM_011661) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR225860 representing NM_011661
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTTGGCTGTTTTGTATTGCCTTCTGTGGAGTTCCAGATCTCTGATGGCCATTTCTCGAGCCT
 GTGCCTCCTCTAAGAACTTGTGGCAAAAGAATGCTGCCACCATGGATGGGTGATGGGAGTCCCTGCGG
 CCAGCTTTCAGGCAGAGGTTCTGCCAGGATATCCTTCTGTCCAGTGCACCATCTGGACCTCAGTCCCC
 TTCAAAGGGTGGATGACCGTGAGTCTGGCCCTCTGTGTTTTATAATAGGACCTGCCAGTGCTCAGGCA
 ACTTCATGGGTTCAACTGCGGAAACTGTAAGTTGGATTTGGGGGCCAAATTGTACAGAGAAGCGAGT
 CTTGATTAGAAGAAACATTTTTGATTTGAGTGTCTCCGAAAAGAATAAGTTCTTTTCTTACCTCACTTTA
 GCAAAACATACTATCAGCTCAGTCTATGTCATCCACAGGCACCTATGGCCAAATGAACAATGGGTCAA
 CACCCATGTTAATGATATCAACATCTACGACCTTTGTATGGATGCATTACTATGTGTCAAGGGACAC
 ACTGCTTGGGGCTCTGAAATATGGAGGGACATTGATTTGCCCATGAAGCACCAGGTTTCTGCCTTGG
 CACAGACTTTTCTGTTATTGTGGGAACAAGAAATTCGAGAACTAACTGGGGATGAGAACTCACTGTTC
 CATACTGGGATTGGAGAGATGCAGAAAAGTGTGACATTTGCACAGATGAGTACTTGGGAGGTCGTACCC
 TGAAAATCCTAACTTACTCAGCCAGCATCCTTCTTCTCCTCTGGCAGATCATTGTAGCAGATCAGAA
 GAGTATAATAGCCATCAGGTTTTATGCGATGGAACACCTGAGGGACCACTATTACGTAATCCTGGAACC
 ATGACAAAGCCAAAACCCAGGCTCCCATCTTCAGCAGATGTGGATTTTGTCTGAGTTTGACCCAGTA
 TGAATCTGGATCAATGGATAGAAGTCCCAATTTACGCTTTAGAAACACACTGGAAGGATTTGCCAGTCCA
 CTCACAGGGATAGCAGATCCTTCTCAAAGTATGATGCACAATGCCTTACATATCTTTATGAATGGAACAA
 TGTCCCAAGTACAGGGATCGGCCAACGATCCCATTTTTCTTCTTACCATGCTTTTGTGGACAGTATTTT
 TGAACAATGGCTGCGAAGGCACCCCTCTTTTGGAAAGTTTACCAGAAGCCAATGCACCTATCGGCCAT
 AACAGAGACTCTTACATGGTTCCTTTCATACCGCTCTATAGAAATGGTGATTTCTTCATAACATCCAAGG
 ATCTGGGATATGACTACAGCTACCTCCAAGAGTACAGTCCAGGCTTTTACAGAAATTATATTGAGCCTTA
 CTTGGAACAAGCCAGTCGTATCTGGCCATGGCTTCTTGGGGCAGCACTGGTGGGAGCTGTTATTGCTGCA
 GCTCTCTCTGGGCTTAGCAGTAGGCTATGCCTTCAGAAGAAGAAGAAGAAGCAACCCAGGAGGAAA
 GGCAGCCACTCCTCATGGACAAAGACGACTACCACAGCTTGTGTATCAGAGCCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225860 representing NM_011661
 Red=Cloning site Green=Tags(s)

MFLAVLYCLLWSFQISDGHFPRACASSKNLLAKECCPPWMDGSPCQQLSGRSCQDILLSSAPSGPQFP
 FKGVDDRESWPSVFNRTQCQSGNFMGFNCGNCKFGFGPNCTEKRVLIRRNIIFDLVSEKNKFFSYLTL
 AKHTISSVYVIPTGTYGQMNNGSTPMFNDINIYDLFVWMHYVSRDILLGGSEIWRDIDFAHEAPGFLPW
 HRLFLLLWEQEIRELTGDENFTVPYWDWRDAENCDICTDEYLGGRHPENPNLLSPASFFSSWQIICSRSE
 EYNHQVLCVLTPEGPLLRLNPGNHDKAKTPRLPSSADVEFCLSLTQYESGSMVRTANFSFRNTLEGFASP
 LTGIADPSQSSMHNALHIFMNGTMSQVQGSANDPIFLLHAFVDSIFEQWLRHRPLLEVYPEANAPIGH
 NRDSYMPFIPLYRNGDFFITSKDLGYDYSYLQESDPGFYRNYIEPYLEQASRIWPWLLGAALVGAVIAA
 ALSGLSSRLCLQKKKKKKQPQEERQPLLMKDDYHSLLYQSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_f11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011661

ORF Size: 1599 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](#)

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).

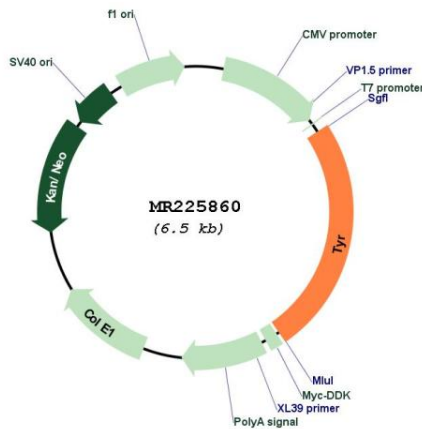
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_011661.5](#), [NP_035791.1](#)

RefSeq Size: 3307 bp
 RefSeq ORF: 1602 bp
 Locus ID: 22173
 UniProt ID: [P11344](#)
 Cytogenetics: 7 49.01 cM
 MW: 61.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR225860