

Product datasheet for **MC221933**

Oca2 (NM_021879) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oca2 (NM_021879) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oca2
Synonyms:	D7H15S12; D7lcr28RN; D7Nic1; p; p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221933 representing NM_021879
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCCTAGAGAACAAGACATCAGGCTGGCCTCAGCCGTGCTGGAAGTAGAGCTACACCAGACATCTG
 CTTTGTGGTCCCAACTTGCCCAGACCCAGGACGGCTGCTGACCGTCAAACCTGCTACCAGTAACACTCAA
 GCTGGGCCAGGCAGACCCTGCATCCCATATGCTGGCGAGGCTGCTGGGAAGAGCGTCTGTGTTCTGAA
 CATAAGAGTTTGGCTCATTCTCGTGAAGGGGAGCTCCAGCTTAAAAGACCTTTCTTTAAGGAAGACA
 CTCCTCTGCTCTGGAATTCATCCAAAAGAAAAGGTCACAGCTCATGCCTGTTTCACCCAGAATTCAT
 AGCTACTGAAGGTTCTGGGAAAATGGCCTTACTGCCTGGGAGCAAAAATGCATGCTGGGTAAAGAGGTT
 GCTGATTTGTCTGCATTGGCCTCCTCAGAGAAACGGGATCTTGCAGGCAGTGTCCATCTTAGAGCCAGG
 TCTCAAGCTTGGGTGCTGTGTGCGGTGGATAAAGATCACAGGCTTGTTTGTTCGTTGGTCTCTGCTC
 TATTTTATTCAGCCTGTATCCGGACCAAGGAAAGTTCTGGCAGCTTTGGCTGTGTACCCTGGAAAAC
 TACTCTGTGAACCTCAGTGGTCACGCGGACTCCATGATACTTCAGCTGGACCTGGCAGGGGCTTAAATGG
 CTGGAGGACCAAGTGGTCCGGGAAAGAAGAACATGTCGTGGTGGTGGTACCCAGACAGACGCAGCGGG
 CAACAGACGGCGGCGACCACAGCAGCTCACCTACAATTGGACTGTCTTTTAAATCCAAGAAGTGAGCAC
 GTGGTGGTGGAGACAACCTTTGAGATAGTGAAGAGGGAGGCTGTTTCCATCAGCATCCAGGCCTCTCTCC
 AACAGACTCGCCTCGTTCCTCTTTTGTGGCCCATCAGTTCCTGGGGCAAGCGTTGAAGACAAGTGCC
 CAGTGGGTGGCAATCCTTGCAGGGGTTATACTCTGATCATATTTGAGATTGTTACAGAACCCCTGGCA
 GCCATGTTGGGAGCACTGCAGCACTAGCAGCCTTGGCTGTGGTGGAGATAGACCCAGCCTGACCCAGC
 TGGTGGAGTGGATTGATTTGAGACTCTGGCCCTGCTGTTTGGCATGATGATCTTAGTAGCCGATTTTTC
 AGAAACAGGATTTTTGATTACTGTGCTGTAAGGCATATCAACTTTCTCGAGGAAGAGTGTGGGCCATG
 ATCTTCATGCTTTGTCTCATGGCTGCCATCCTTTCTGCCTTCTTAGACAATGTCACATACGATGCTCCTTT
 TTACCCCTGTACCATAAGGTTATGTGAAGTGTCAATCTTGATCCGAGACAAGTCTCATTGCAGAAGT
 GATCTTCAACAACATTGGAGGAGCTGCCACTGCTATTGGGGACCCACCAATGTTATCATTGTTTCCAAT
 CAGGAGTTGAGAAAAATGGGCTGGACTTCGCTGGTTTACAGCACACATGTTCTGGGAATTTGCCTTG
 TTCTCCTGGTCTCCTTTCCCTCCTCAGACTTCTGTACTGGAACAAAAAGCTTTATAACAAGGAGCCTAG
 TGAGATCGTGAAGTGAAGCATGAGATTCATGTCTGGCGTTTACTGCCAGCGCATCAGTCCAGCCAGC
 CGTGAGGAGACAGCTGTGCGTGGCTTGTGCTGGAGAAAGTGTTCGCCCTGGAGCATCTGCTGGCTCAA
 GGTTGCACACTTCCACAGGCAATTTACAGGAAGACAAAAATTTGGGAGACCAATATCCAAGAGCTACA
 AAGAAAGCACAGGATTTAGACAGGAGTCTGCTTGTCAAGTGCCTGACCGTGTGGGATTTGTCATCTCC
 ATGTTCTTTCTCAACTCCTTTGTCCCTGGCATTTCATCTTGATCTTGGATGGATTGCTATTCTGGGTGCCA
 TCTGGTTGCTAATTTAGCTGATATTCATGACTTTGAGATCATTCTACACAGAGTAGAGTGGGCGACTCT
 TCTCTTTTGCAGCACTTTTGTGCTGATGGAGGCATTGACACATCTTCACTTAGTAGAGTATGTTGGA
 GAACAGACTGCCCTACTAATAAAGATGGTCCAGAAGATCAGCGCTTGCAGCTGCCATTGCTCTGATAG
 TGTGGTCTCAGCCTTGGCATCATCCTTGATTGACAACATCCCATTTACTGCTACGATGATTCCTGTACT
 CCTGAACCTGAGCCAAGACCCTGAAATTAGTTTGCCTGCACTGCCTCTCATGTATGCCCTGGCCCTCGGT
 GCCTGCCTGGGAGGTAATGGGACACTTATCGGAGCATCCACAAATGTTGTTTGTGAGGAATCGCAGAGA
 AGCATGGGTATGATTCTCTTTCATGGAATTTTTCAGGTTGGGCTTCCCTGTGATGCTCATGCTCCTGCAC
 CATTGGGATGTGCTATCTCTGATTGCTCACATTGTTGGTGGGATGGAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_021879
 Insert Size: 2502 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).
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:	NM_021879.2 , NP_068679.1
RefSeq Size:	3120 bp
RefSeq ORF:	2502 bp
Locus ID:	18431
UniProt ID:	Q62052
Cytogenetics:	7 33.44 cM
Gene Summary:	Could be involved in the transport of tyrosine, the precursor to melanin synthesis, within the melanocyte. Regulates the pH of melanosome and the melanosome maturation. One of the components of the mammalian pigmentary system. Seems to regulate the postranslational processing of tyrosinase, which catalyzes the limiting reaction in melanin synthesis. It can modulate intracellular glutathione metabolism.[UniProtKB/Swiss-Prot Function]