

## Product datasheet for MC208963

### Mitf (NM\_008601) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mitf (NM_008601) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mitf
Synonyms:	BCC2; Bhlhe32; bw; Gsfbcc2; mi; vit; Vitiligo; Wh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208963 representing NM_008601 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGAAATGCTAGAATACAGTCACTACCAGGTGCAGACCCACCTGGAAAACCCACCAAGTACCACA  
TACAGCAAGCTCAGAGGCCACAGGTAAGCAGTACCTTTCTACCCTTTAGCAAATAACATGCCAGCCA  
AGTCTGAGCTCACCATGTCCAAACCAGCCTGGCGACCATGCCATGCCACCAGTCCGGGGAGCAGCGCA  
CCCAACAGCCCTATGGCTATGCTCACTTAACTCCAACCTGTGAAAAGAGGCATTTTATAAGTTTGAGG  
AGCAGAGCAGGGCAGAGAGTGAGTGCCAGGTATGAACACGCACTCTCGAGCGTGTGCATGCAGATGGA  
TGATGTAATTGATGACATCATCAGCCTGGAATCAAGTTATAATGAAGAAATTTTGGGCTTGATGGATCCG  
GCCTTGCAAATGGCAAATACGTTACCCGCTCTTGAAAACCTTGATCGACCTCTACAGCAACCAGGGCCTGC  
CACCGCCAGGCCTTACCATCAGCAAACCTGTCCAGCCAACCTTCCCAACATAAAAAGGGAGCTCACAGC  
GTGTATTTTCCCCACAGAGTCTGAAGCAAGAGCATTGGCTAAAGAGAGGCAGAAAAGGACAATCACAAC  
TTGATTGAACGAAGAAGAAGATTTAACATAAACGACCGCATTAAAGGAGCTAGGTAAGTCTGATCCCCAAGT  
CAAATGATCCAGACATGCGGTGGAACAAGGAACCATTTCAAGGCCTCTGTGGACTACATCCGGAAGTT  
GCAACGGGAACAGCAACGAGCTAAGGACCTTAAAACCGACAGAAGAAGCTGGAGCATGCGAACCCGGCAC  
CTGCTGCTCAGAGTACAGGAGCTGGAGATGCAGGCTAGAGCGCATGGACTTCCCTTATCCCATCCACCG  
GTCTTGCTCGCCTGATCTGGTGAATCGGATCATCAAGCAAGAACCAGTTCTTGAGAAGCTCAGCCAGGA  
ACTTGTACAGCACCAGGCAGACCTGACATGTACGACAACCTCTGGATCTCACGGACGGTACCATCACCTTT  
ACCAACAACCTCGGCACCATGCCGGAGAGCAGCCCGCCTACAGCATCCCAGGAAGATGGGCTCCAAC  
TGGAAGACATCTGATGGACGATGCCCTCTCACCTGTTGGAGTACCGACCCACTGCTGTATCAGTGTG  
GCCAGGAGCTTCAAAAACAAGCAGCCGGAGGAGCAGTATGAGCGCAGAAGAAACGGAGCATGCGTGT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_008601
<b>Insert Size:</b>	1260 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_008601.3</a></u> , <u><a href="#">NP_032627.1</a></u>
<b>RefSeq Size:</b>	4581 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	17342
<b>UniProt ID:</b>	<u><a href="#">Q08874</a></u>
<b>Cytogenetics:</b>	6 45.05 cM
<b>Gene Summary:</b>	<p>This transcription factor serves at a critical point between extracellular signaling and downstream targets in cell specification in early eye and neural crest development. Mutant alleles have been identified that generate distinct phenotypes. Some of these alleles are being used to model the human diseases Waardenburg syndrome IIa and Tietz syndrome. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2, also known as Mitf-M) has a distinct N-terminus and is shorter than isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by {transcript alignments.</p>