

Product datasheet for **MR227086**

Mitf (NM_001113198) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mitf (NM_001113198) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

ORF Nucleotide Sequence:

>MR227086 representing NM_001113198
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTCCGAATCGGGAATCGTGGCGGATTTCAAGTCGGGAGGAGTTTCACGAAGAACCCAAAACCT
 ATTACGAACTCAAAGTCAACCTCTGAAGAGCAGCAGTTCTGCAGAGCATTCTGGGGCCTCAAGCCTCC
 GTTAAGCTCCTCCACTATGACATCACGCATCTTGTACGCCAGCAACTCATGCGTGAGCAGATGCAGGAG
 CAGGAGCGCAGGGAGCAGCAGCAGAAGCTGCAGGCAGCCAGTTCATGCAACAGAGAGTGGCCGTGAGTC
 AGACACCAGCCATAAACGTCAGCGTGCCACCACCCTTCCCTCTGCCACCAGGTGCCGATGGAAGTCTT
 TAAGGTGCAGACCACCTGAAAAACCCACCAAGTACCACATACAGCAAGCTCAGAGGCACCAGGTAAG
 CAGTACCTTTCTACCCTTTAGCAAATAAATGCCAGCCAAGTCTGAGCTCACCATGTCCAAACCAGC
 CTGGCGACCATGCCATGCCACCAGTGCCGGGAGCAGCGCACCCAACAGCCCTATGGCTATGCTCACTCT
 TAACTCCAACGTGAAAAAGAGGCATTTATAAGTTTGAGGAGCAGAGCAGGGCAGAGAGTGAAGTCCCA
 GGTATGAACACGCACTCTCGAGCGTCGTGCATGCAGATGGATGATGTAATTGATGACATCATCAGCCTGG
 AATCAAGTTATAATGAAGAAATTTGGGCTTGATGGATCCGGCCTTGCAATGGCAAATACGTTACCCGT
 CTCTGAAACTTGATCGACCTCTACAGCAACCAGGGCCTGCCACCGCCAGGCCTTACCATCAGCAACTCC
 TGTCCAGCCAACCTTCCCAACATAAAAAGGGAGCTCACAGCGTGTATTTCCCCACAGAGTCTGAAGCAA
 GAGCATTGGCTAAAGAGAGGCAGAAAAAGGACAATCACAACCTTGATTGAACGAAGAAGAAGATTTAAT
 AAACGACCGCATTAAAGGAGCTAGTACTCTGATCCCAAGTCAAATGATCCAGACATGCGGTGGAACAAG
 GGAACCATCTCAAGCCCTCTGTGGACTACATCCGGAAGTTGCAACGGGAACAGCAACGAGCTAAGGACC
 TTGAAAACCGACAGAAGAAGCTGGAGCATGCGAACCGGCACCTGCTGCTCAGAGTACAGGAGCTGGAGAT
 GCAGGCTAGAGCGCATGGACTTTCCTTATCCCATCCACCGGTCTCTGCTCGCCTGATCTGGTGAATCGG
 ATCATCAAGCAAGAACCAGTTCTTGAGAACTGCAGCCAGGAACCTGTACAGCACCAGGCAGACCTGACAT
 GTACGACAACCTGGATCTCACGGACGGTACCATCACCTTTACCAACAACCTCGGCACCATGCCGGAGAG
 CAGCCCGCCTACAGCATCCCCAGGAAGATGGGCTCCAACCTGGAAGACATCCTGATGGACGATGCCCTC
 TCACCTGTTGGAGTACCGACCCACTGCTGTATCAGTGTGCCAGGAGCTTCAAAAACAAGCAGCCGGA
 GGAGCAGTATGAGCGCAGAAGAACGGAGCATGCGTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227086 representing NM_001113198
 Red=Cloning site Green=Tags(s)

MQSESGIVADFEVGEFHEEPKTYEYELKSQPLKSSSSAEHSGASKPPLSSSTMTSRILLRQQLMREQMQE
 QERREQQKLQAAQFMQQRVAVSQTPAINVSVPTLPSATQVPMELVKVQTHLENPTKYHIQQAQRHQVK
 QYLSTTLANKHASQVLSPPCPNPQPGDHAMPVPGSSAPNSPMAMTLNSNCEKEAFYKFEEQSRAESECP
 GMNTHSRASCMQMDVIDDIISLESSYNEEILGLMDPALQMANTLPVSGNLIDLYSNQGPPPLTISNS
 CPANLPNIKREL TACIFPTESEARALAKERQKDNHNL IERRRRFNINDRIKELGTLIPKSNPDMRWK
 GTILKASVDYIRKLQREQQRAKDLENRQKLEHANRHL LRVQELMQRARHGLSLIPSTGLCSPDLVNR
 I IKQEPVLENCSEQELVQHQADL TCTTTLDLTDGTITFTNNLGTMPESSPAYSI PRKMGSNLEDILMDDAL
 SPVGVTDP LLSVSPGASKTSSRRSSMSAEETEHA C

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1687_e10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001113198

ORF Size: 1578 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_001113198.1](#), [NP_001106669.1](#)

RefSeq Size: 4890 bp

RefSeq ORF: 1581 bp

Locus ID: 17342

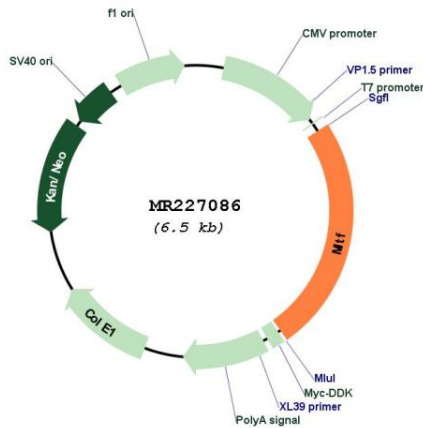
UniProt ID: [Q08874](#)

Cytogenetics: 6 45.05 cM

MW: 59.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR227086