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Product datasheet for MC217428

Mitf (NM_001113198) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mitf (NM_001113198) 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:

>MC217428 representing NM_001113198
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGTCCGAATCGGGAATCGTGGCGGATTTCGAAGTCGGGGAGGAGTTTCACGAAGAACCCAAAACCT
ATTACGAACTCAAAAGTCAACCTCTGAAGAGCAGCAGTTCTGCAGAGCATTCTGGGGCCTCCAAGCCTCC
GTTAAGCTCCTCCACTATGACATCACGCATCTTGCTACGCCAGCAACTCATGCGTGAGCAGATGCAGGAG
CAGGAGCGCAGGGAGCAGCAGCAGAAGCTGCAGGCAGCCCAGTTCATGCAACAGAGAGTGGCCGTGAGTC
AGACACCAGCCATAAACGTCAGCGTGCCCACCACCCTTCCCTCTGCCACCCAGGTGCCGATGGAAGTCCT
TAAGGTGCAGACCCACCTGGAAAACCCCACCAAGTACCACATACAGCAAGCTCAGAGGCACCAGGTAAAG
CAGTACCTTTCTACCACTTTAGCAAATAAACATGCCAGCCAAGTCCTGAGCTCACCATGTCCAAACCAGC
CTGGCGACCATGCCATGCCACCAGTGCCGGGGAGCAGCGCACCCAACAGCCCTATGGCTATGCTCACTCT
TAACTCCAACTGTGAAAAAGAGGCATTTTATAAGTTTGAGGAGCAGAGCAGGGCAGAGAGTGAGTGCCCA
GGTATGAACACGCACTCTCGAGCGTCGTGCATGCAGATGGATGATGTAATTGATGACATCATCAGCCTGG
AATCAAGTTATAATGAAGAAATTTTGGGCTTGATGGATCCGGCCTTGCAAATGGCAAATACGTTACCCGT
CTCTGGAAACTTGATCGACCTCTACAGCAACCAGGGCCTGCCACCGCCAGGCCTTACCATCAGCAACTCC
TGTCCAGCCAACCTTCCCAACATAAAAAGGGAGCTCACAGCGTGTATTTTCCCCACAGAGTCTGAAGCAA
GAGCATTGGCTAAAGAGAGGCAGAAAAAGGACAATCACAACTTGATTGAACGAAGAAGAAGATTTAACAT
AAACGACCGCATTAAGGAGCTAGGTACTCTGATCCCCAAGTCAAATGATCCAGACATGCGGTGGAACAAG
GGAACCATTCTCAAGGCCTCTGTGGACTACATCCGGAAGTTGCAACGGGAACAGCAACGAGCTAAGGACC
TTGAAAACCGACAGAAGAAGCTGGAGCATGCGAACCGGCACCTGCTGCTCAGAGTACAGGAGCTGGAGAT
GCAGGCTAGAGCGCATGGACTTTCCCTTATCCCATCCACCGGTCTCTGCTCGCCTGATCTGGTGAATCGG
ATCATCAAGCAAGAACCAGTTCTTGAGAACTGCAGCCAGGAACTTGTACAGCACCAGGCAGACCTGACAT
GTACGACAACTCTGGATCTCACGGACGGTACCATCACCTTTACCAACAACCTCGGCACCATGCCGGAGAG
CAGCCCGGCCTACAGCATCCCCAGGAAGATGGGCTCCAACTTGGAAGACATCCTGATGGACGATGCCCTC
TCACCTGTTGGAGTCACCGACCCACTGCTGTCATCAGTGTCGCCAGGAGCTTCAAAAACAAGCAGCCGGA
GGAGCAGTATGAGCGCAGAAGAAACGGAGCATGCGTGTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1576_a03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001113198

Insert Size: 1581 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:	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
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as Mitf-A). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.