

Product datasheet for **MG227084**

Mitf (NM_008601) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mitf (NM_008601) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mitf
Synonyms:	BCC2; Bhlhe32; bw; Gsfbcc2; mi; vit; Vitiligo; Wh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227084 representing NM_008601 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGAATGCTAGAATACAGTCACTACCAGGTGCAGACCCACCTGGAAAACCCACCAAGTACCACA
TACAGCAAGCTCAGAGGCACCAGGTAAGCAGTACCTTTCTACCCTTTAGCAAATAACATGCCAGCCA
AGTCTGAGCTCACCATGTCCAAACCAGCCTGGCGACCATGCCATGCCACCAGTCCGGGGAGCAGCGCA
CCCAACAGCCCTATGGCTATGCTCACTTAACTCCAACGTGAAAAAGAGGCATTTATAAGTTTGAGG
AGCAGAGCAGGGCAGAGAGTGAGTGCCAGGTATGAACACGCACCTCGAGCGTCGTGCATGCAGATGGA
TGATGTAATTGATGACATCATCAGCCTGGAATCAAGTTATAATGAAGAAATTTGGGCTTGATGGATCCG
GCCTTGCAAATGGCAAATACGTTACCCGCTCTGGAACTTGATCGACCTCTACAGCAACCAGGGCCTGC
CACCGCCAGGCCTTACCATCAGCAACTCCTGTCCAGCCAACCTTCCCAACATAAAAAGGGAGCTCACAGC
GTGATTTTCCCCACAGAGTCTGAAGCAAGAGCATTGGCTAAAGAGAGGCAGAAAAGGACAATCACAAC
TTGATTGAACGAAGAAGAAGATTTAACATAAACGACCGCATTAAAGGAGCTAGGTAAGTCTGATCCCAAGT
CAAATGATCCAGACATGCGGTGGAACAAGGAACCATTCTCAAGGCCTCTGTGGACTACATCCGGAAGT
GCAACGGGAACAGCAACGAGCTAAGGACCTTAAAAACCGACAGAAGAAGCTGGAGCATGCGAACCGGCAC
CTGCTGCTCAGAGTACAGGAGCTGGAGATGCAGGCTAGAGCGCATGGACTTCCCTTATCCCATCCACCG
GTCTTGCTCGCCTGATCTGGTGAATCGGATCATCAAGCAAGAACCAGTCTTGAGAAGTGCAGCCAGGA
ACTTGTACAGCACCAGGCAGACCTGACATGTACGACAACCTCTGGATCTCACGGACGGTACCATCACCTTT
ACCAACAACCTCGGCACCATGCCGGAGAGCAGCCCGCCTACAGCATCCCAGGAAGATGGGCTCCAAC
TGGAAGACATCCTGATGGACGATGCCCTCTCACCTGTTGGAGTACCGACCCACTGCTGTATCAGTGTG
GCCAGGAGCTTAAAAACAAGCAGCCGGAGGAGCAGTATGAGCGCAGAAGAAACGGAGCATGCGTGT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227084 representing NM_008601
 Red=Cloning site Green=Tags(s)

MLEMLEYSHYVQVQTHLENPTKYHIQQAQRHQVKQYLSTTLANKHASQVLSGPCPNQPGDHAMPPVPGSSA
 PNSPMAMLTLSNCEKEAFYKFEEQSRAESECPGMNTHSRASCMQDDVIDDIISLESSYNEEILGLMDP
 ALQMANTLPVSGNLIDLYSNQLPPPGLTISNSCPANLPNIKRELTACIFPTESEARALAKERQKKDNHN
 LIERRRRFNINDRIKELGTLIPKSNPDMRWKGTILKASVDYIRKLQREQQRAKDLNRQKKLEHANRH
 LLLRVQELQMARAHLGLSLIPSTGLCSPDLVNRIKQEPVLENCSEQELVQHQADLTCTTTLDLTDGTITF
 TNNLGTMPESPAYSIPRKMGSNLEDILMDDALSPVGVTDPLLSSVSPGASKTSSRRSSMSAEETEHA

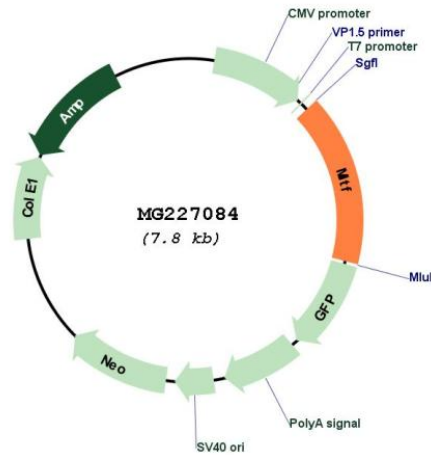
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008601

ORF Size:	1257 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_008601.3 , NP_032627.1
RefSeq Size:	4581 bp
RefSeq ORF:	1260 bp
Locus ID:	17342
UniProt ID:	Q08874
Cytogenetics:	6 45.05 cM
Gene Summary:	<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>