OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC122501

MITF (BC012503) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MITF (BC012503) Human Untagged Clone
Tag:	Tag Free
Symbol:	MITF
Synonyms:	bHLHe32; CMM8; MI; WS2; WS2A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC012503 edited CTTTGCCAGTCCATCTTCAAATTGGAATTATAGAAAGTAGAGGGAGGGATAGTCTACCGT CTCTCACTGGATTGGTGCCACCTAAAACATTGTTATGCTGGAAATGCTAGAATATAATCA CTATCAGGTGCAGACCCACCTCGAAAACCCCACCAAGTACCACATACAGCAAGCCCAACG GCAGCAGGTAAAGCAGTACCTTTCTACCACTTTAGCAAATAAACATGCCAACCAAGTCCT GAGCTTGCCATGTCCAAACCAGCCTGGCGATCATGTCATGCCACCGGTGCCGGGGAGCAG CGCACCCAACAGCCCCATGGCTATGCTTACGCTTAACTCCAACTGTGAAAAAGAGTTTAT GAAGCAGTGAGAATGCAGAGAGAGGAGAAGGGGAGGTGGAAAAGGAAAAGCAAAAATAGA AGAGGTGTGGGACATGCTGTTTAGAAGTTCCGCTTGTTGTGAATGTCTGGAATATTATTT TTATTTCTCCCTGAGTTGGGGGAAGAAAGAATGGAATATGCATGGATGGATTTGAATCAT ATAGCACATGAGACTTTAACGGAAACGCAAAGGTTTAATTGCTGGATACATTCTGTTTCA TAATAAAATTGCCACTGCCCGTTAAATCTGCTTTGGTGAAGGCTGGATTGGAAACAAGAC TCAAACTACCTTCAAGCTAATTGGTGCATCAAAATTTGCAGCATACAAATACCTGAGAGC TGTGATTTAATGCTCATTATTTCCAAATTATGAGATGATGAGCTTCATCTCAATGGGATT TACCGTACTATGGACTATGAAGTGTTTATGCAAATTCGGAGGCAACTTTTCTAGAGTTGG ATTGATTTTAATTTCTAGAGGGACTAAAATCTTTGCCCCTATGCCCAAACCAACTGCTTT ATTTTTCTCTACCCAAATTTGTCATCTAGCAAGATGATTTGACACAAGTTCTTCCTTCAT TATTTCATCTTTTGGTCAGATTCCACTTTGTTTGAAAGCTTAGTTCATCTTGTTGCTGTG CCATCAGCTTTGTGTGAACAGGTCATTAAAAAGTCATTTGCAAATCCAAAAAAAAAAAAA AA

View online »

5' Read Nucleotide Sequence:

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>OriGene 5' read for BC012503 unedited
GGGCGGTTCAAATTTGTATACGACTCACTATGGGCGGCCGCGATTCCCGGGATATCGTCG
ACCCACGCGTCCGCTTTGCCAGTCCATCTTCAAATTGGAATTATAGAAAGTAGAGGGAGG
GATAGTCTACCGTCTCTCACTGGATTGGTGCCACCTAAAACATTGTTATGCTGGAAATGC
TAGAATATAATCACTATCAGGTGCAGACCCACCTCGAAAACCCCACCAAGTACCACATAC
AGCAAGCCCAACGGCAGCAGGTAAAGCAGTACCTTTCTACCACTTTAGCAAATAAACATG
CCAACCAAGTCCTGAGCTTGCCATGTCCAAACCAGCCTGGCGATCATGTCATGCCACCGG
TGCCGGGGAGCAGCGCACCCAACAGCCCCATGGCTATGCTTACGCTTAACTCCAACTGTG
AAAAAGAGTTTATGAAGCAGTGAGAATGCAGAGAGAGGAGAAGGGGAGGTGGAAAAGGAA
AAGCAAAAATAGAAGAGGTGTGGGACATGCTGTTTAGAAGTTCCGCTTGTTGTGAATGTC
TGGAATATTATTTTTATTTCTCCCTGAGTTGGGGGAAGAAAGAATGGAATATGCATGGAT
GGATTTGAATCATATAGCACATGAGACTTTAACGGAAACGCAAAGGTTTAATTGCTGGAT
ACATTCTGTTTCATAATAAAATTGCCACTGCCCGTTAAATCTGCTTTGGTGAAGGCTGGA
TTGGAAACAAGACTCANACTACCTTCAAGCTAATTGGTGCATCAAAATTTGCAGCATACA
AATACCTGAGAGCTGTGATTTAATGCTCATTATTTCCAATTATGAGATGATGAGCTTCAT
CTCAATGGGATTTACCGTACTATGGGACTATGAAGTGTTTATGCCAATTCGGAGGCAACT
TTNCTAGATTGGNA
```

Restriction Sites: Please inquire

ACCN: BC012503

Insert Size: 1082 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: BC012503.1

RefSeq Size: 1082 bp

Locus ID: 4286

Cytogenetics: 3p13

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Melanogenesis, Melanoma, Pathways in cancer

Gene Summary: The protein encoded by this gene is a transcription factor that contains both basic helix-loop-helix and leucine zipper structural features. The encoded protein regulates melanocyte development and is responsible for pigment cell-specific transcription of the melanogenesis enzyme genes. Heterozygous mutations in the this gene cause auditory-pigmentary syndromes, such as Waardenburg syndrome type 2 and Tietz syndrome. [provided by RefSeq, Aug 2017]