

Product datasheet for **SC122502**

MITF (BC011461) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MITF (BC011461) Human Untagged Clone
Tag:	Tag Free
Symbol:	MITF
Synonyms:	bHLHe32; homolog of mouse microphthalmia; MI; microphthalmia-associated transcription factor; OTTHUMP00000195123; OTTHUMP00000195140; WS2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC011461 edited

```

GTACCATAGTGTTTCATTGATACAATCATAGCATTGTCTATTTTTCTTTCATATTTATAT
GGGGGGGAGGGCGCTGGATGCAAAAGTTGAAGATCGTGATGCTATGATGTTAGTTTTCT
TAGCTGATTTTGAGGGTTTTTAAAAATAAAGCAAGTTGACTAACCTACGGCCACGGGAA
CAGGACCATGGTTAAGCAACCATATAGAAAGCTTTGTTGAAAGAAAGTATGGCATCTTGT
ACCACTGCCTGACTGTCACAACCTCCTAACCTTGCCATTGCCTGCCCTCCCCTCCCCTTC
TCCTTAAGAGACAATTTCTGCAGGTGGCAGGTGAGCAAGCCAGGAGAATGCTGCAATCT
TGGGGGTGGTTTTATTTATTTCTTTTTGCCAAATAGAGTGTGGATTCATTTAGGGGCT
AGCTAAGCCAAGAGGCAGTGGTTTGGGCTTGTGTTTGTAAACAAGAAAATGATCCACACC
ACTCCCCGATCCCGGTGCAGAATTGTAACCTCGGGTTGGCCTCTATATGGAGTGAC
CAAAATGCCAAAATTGTCCATCTGCCTCTGAGTAGGGCAATGAAATACCAAACCTTCTG
ACTTTGCCAAAAGCATAACAAGCAACCTGGTCATACATAGGATGACAAAATCTTTCTGG
TTGTTTTTAAACAATAAAGCAATAAGAACAATAACAATACATAGGAAGTTAAAAGCACAA
AGGAATGAACTTATTAATATTTTTGAAAAATGCACTGGGAAAAAGTTGATGTCAATAACA
GTATAAACAGCCCTATTTCTTGATAAAAAATGACAAATGACTGTCTCTTGCGGATGCTT
GGTACTGTAATGTTAATAATAGTCACCTGCTGTTGGATGCAGCAATAATTTCTGTATGTT
TTTTTTTTTGTATATTATGGATCGATTAATGTATCCAATGAAATAATCGACTTGTC
TTGATAGCCTCATTAAAGCATTGGTTTTTACATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for BC011461 unedited AAAAGTTCACATTTGTATACGACTCATATAGGCGGCCGACGATCCCGGGATATCGTCGA CCCACGGTCCGGTACCATAGTGTTTCATTGATACAATCATAGCATTGTCTATTTTCTCT TCATATTTATATGGGGGGGAGGGCGCTGGATGCAAAAGTTGAAGATCGTGATGCTATGAT GTTAGTTTTCTTAGCTGATTTTGAGGGTTTTAAAAATAAAGCAAGTTGACTAACCTA CGGCCACGGGAACAGGACCATGGTTAAGCAACCATATAGAAAGCTTTGTTGAAAGAAAGT ATGGCATCTTGTACCACTGCCCTGACTGTCACAACCTCTAACCTTGCCATTGCCTGCCTC CCCTCCCTTCTCCTTAAGAGACAATTTCTGCAGGTGGCAGGTGAGCAAGCCCAGGAGA ATGCTGCAATCTTGGGGTGGTTTTATTTATTTCTTTTTTGCCAAATAGAGTGTGGATTC ATTTCAAGGGCTAGCTAAGCCAAGAGGCAGTGGTTGGGCTTGTGTTTGAACAAGAAA ATGATCCACACCACTCCCCGATTCCCGGTGCAGAATTGTAACCTCGGGTTGGGCCTCT ATATGGAGTGACCAAAATGCCAAAATTGTCCATCTGCCTCTGAGTAGGGCAATGGAATA CCAAACCTTCTGACTTTGCCAAAAGCATAACAAGCAACCTGGTCATACATAGGATGACAA AATTCTTCTGGTTGTTTTAAACAATAAAGCAATAAGAACAAAATACAATACATTAGGAA GTTAANAGCACANAGGAATGAACTTATTAATATTTTTGAAAAATGCACTGGGAAAAGTT GATGTCAATAACAGTATAAAACAGCCCTATTTCTTGATAAAAAATGACAATGACTGTCTC TTGCGGATGCTAGGTAC
Restriction Sites:	Please inquire
ACCN:	BC011461
Insert Size:	1049 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:	<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:	<u>BC011461.1</u>
RefSeq Size:	1049 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]