

## Product datasheet for **RR216850**

### Mitf (NM\_001191089) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mitf (NM_001191089) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mitf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216850 representing NM\_001191089  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGTCTGAATCGGGAATCGTGGCGGATTTCAAGTCGGGAGGAGTTTCACGAAGAACCCAAAACCT  
 ATTACGAACTCAAAGTCAACCTCTGAAGAGCAGCAGTTCTGCAGAGCATTCTGGGGCCTCAAGCCTCC  
 GTTAAGCTCCTCCACTATGACATCACGCATCTTGTACGCCAGCAACTCATGCGTGAGCAGATGCAGGAG  
 CAGGAGCGCAGGGAGCAGCAGCAGAAGCTGCAGGCAGCCAGTTCATGCAACAGAGAGTGCCCGTGAGTC  
 AGACACCAGCCATAAACGTCAGCGTGCCACCACCCTTCCCTCTGCCACCAGGTGCCGATGGAAGTCTT  
 CAAGGTGCAGACCACCTGAAAAACCCACCAAGTACCACATACAGCAAGCCAGAGGCACCAGGTAAG  
 CAGTACCTTTCTACCCTTTAGCAAACAAACATGCCGGCAAGTCTGAGCCGCCATGTCCAAACCAGC  
 CTGGCGACCATGCCATGCCTCCAGTGCCGGGAGCAGCGCACCCAACAGCCCATGGCTATGCTCACTCT  
 TAACTCCAACGTGAAAAAGAGGCGTTTTATAAGTTTGAGGAGCAGAGCAGGGCAGAGAGTGAGTGCCCA  
 GGTATGAACACGCACTCTCGAGCTTCGTGCATGCAGATGGATGATGTGATTGATGACATCATCAGCCTGG  
 AATCAAGTTATAATGAAGAAATTTGGGCTTGATGGATCCGGCCTTGCAATGGCAAATACGTTACCTGT  
 CTCTGAAACTTGATCGACCTATACAGCAACCAGGGCCTGCCACCCCCAGGCCTTACCATCAGCAACTCT  
 TGTCCAGCCAACCTTCCCAACATAAAAAGAGAGCTCACAGCGTGTATTTCCCCACAGAGTCTGAAGCAA  
 GAGCATTGGCTAAAGAGAGGCAGAAAAAGGACAATCACAACCTTGATTGAACGGAGAAGAAGATTTAACAT  
 AAATGACCGCATTAAAGAACTAGTACTTTGATTTCCCAAGTCAAACGATCCGGACATGCGTTGGAACAAG  
 GGGACCATCCTCAAGGCCTCCGTGGACTACATCCGAAAGTTGCAACGGGAACAGCAGCGAGCTAAGGACC  
 TTGAAAAACCGCAGAAGAAGCTGGAGCATGCTAACCCCATCTGCTGCTCAGAGTGACAGGAGCTCGAGT  
 GCAGGCTAGAGCACATGGGCTTTCTCTTATCCCATCCACGGTCTCTGCTCGCCTGATTTGGTGAATCGG  
 ATCATCAAGCAAGAACCAGTTCTTGAGAACTGCAGCCAGGAACTGTACAGCACCAGGCAGACCTGACAT  
 GCACAACGACTCTGGATCTCACGGACGGTACCATCTCCTTTACCAACAACCTCGGCACAATGCCTGAGAG  
 CAGCCCGGCTACAGCATCCCCAGGAAGATGGCCTCCAACCTTGAAGACATCCTGATGGACGATGCCCTC  
 TCACCTGTGCGCGTCACCGACCCACTGCTGTATCAGTGTCCCCAGGAGCTTCGAAAACAAGCAGCCGGA  
 GGAGCAGTATGAGCGCAGAAGAACGGAGCATGCGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216850 representing NM\_001191089  
 Red=Cloning site Green=Tags(s)

MQSESGIVADFEVGEFHEEPKTYEYELKSPKSSSSAEHSGASKPPLSSSTMTSRILLRQQLMREQMQE  
 QERREQQKLQAAQFMQQRVAVSQTPAINVSVPTTLPATQVPMEVLKVQTHLENPTKYHIQQAQRHGVK  
 QYLSTTLANKHAGQVLSPPCPNQPGDHAMPPVPGSSAPNSPMAMTLNSNCEKEAFYKFEEQSRAESECP  
 GMNTHSRASCMQDDVIDDIISLESSYNEEILGLMDPALQMANTLPVSGNLDLYSNQGLPPPGLTISNS  
 CPANLPNIKRELTACIFPTESEARALAKERQKKNHNLIERRRRFNINDRIKELGTLIPKSNPDMRWK  
 GTILKASVDYIRKLQREQQRADLENRQKLEHANRHLLLRVQELEMQARAHGLSLIPSTGLCSPDLVNR  
 IIKQEPVLENCSELVHQADLTCTTTLDLTDGTISFTNNLGTMPESSPAYSIIPRKMASNLEDILMDDAL  
 SPVGVTDPLLSSVSPGASKTSSRRSSMSAEETEHA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001191089

**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\\_001191089.2](#), [NP\\_001178018.1](#)
**RefSeq Size:** 4791 bp

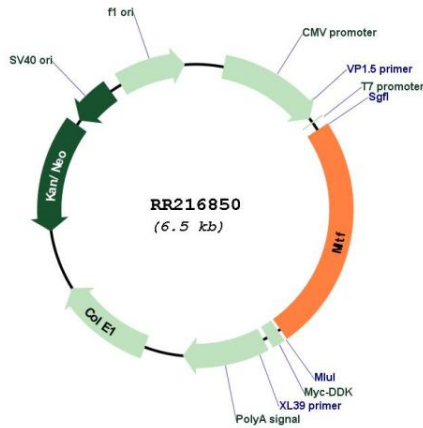
**RefSeq ORF:** 1581 bp

**Locus ID:** 25094

**UniProt ID:** [O88368](#)

Cytogenetics: 4q34  
 MW: 58.6 kDa  
 Gene Summary: basic helix-loop-helix-leucine zipper transcription factor; may play a role in osteoclast function [RGD, Feb 2006]

**Product images:**



Circular map for RR216850