

## Product datasheet for **RN216850**

### **Mitf (NM\_001191089) Rat Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >RN216850 representing NM\_001191089  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGTCTGAATCGGGAATCGTGGCGGATTTCAAGTCGGGAGGAGTTTCACGAAGAACCCAAAACCT  
 ATTACGAACTCAAAGTCAACCTCTGAAGAGCAGCAGTTCTGCAGAGCATTCTGGGGCCTCCAAGCCTCC  
 GTTAAGCTCCTCCACTATGACATCACGCATCTTGTACGCCAGCAACTCATGCGTGAGCAGATGCAGGAG  
 CAGGAGCGCAGGGAGCAGCAGCAGAAGCTGCAGGCAGCCAGTTCATGCAACAGAGAGTGCCCGTGAGTC  
 AGACACCAGCCATAAACGTCAGCGTGCCACCACCCTTCCCTCTGCCACCAGGTGCCGATGGAAGTCTT  
 CAAGGTGCAGACCACCTGAAAAACCCACCAAGTACCACATACAGCAAGCCAGAGGCACCAGGTAAG  
 CAGTACCTTTCTACCCTTTAGCAAACAAACATGCCGGCCAAGTCTGAGCCGCCATGTCCAAACCAGC  
 CTGGCGACCATGCCATGCCTCCAGTGCCGGGGAGCAGCGCACCCAACAGCCCATGGCTATGCTCACTCT  
 TAACTCCAACGTGAAAAAGAGGCGTTTTATAAGTTTGAGGAGCAGAGCAGGGCAGAGAGTGAGTGCCCA  
 GGTATGAACACGCACTCTCGAGCTTCGTGCATGCAGATGGATGATGTGATTGATGACATCATCAGCCTGG  
 AATCAAGTTATAATGAAGAAATTTGGGCTTGATGGATCCGGCCTTGCAATGGCAAATACGTTACCTGT  
 CTCTGGAACTTGATCGACCTATACAGCAACCAGGGCCTGCCACCCCCAGGCCTTACCATCAGCAACTCT  
 TGTCCAGCCAACCTTCCCAACATAAAAAGAGAGCTCACAGCGTGTATTTCCCCACAGAGTCTGAAGCAA  
 GAGCATTGGCTAAAGAGAGGCAGAAAAAGGACAATCACAACCTTGATTGAACGGAGAAGAAGATTTAACAT  
 AAATGACCGCATTAAAGAACTAGTACTTTGATTTCCCAAGTCAAACGATCCGGACATGCGTTGGAACAAG  
 GGGACCATCCTCAAGGCCTCCGTGGACTACATCCGAAAGTTGCAACGGGAACAGCAGCGAGCTAAGGACC  
 TTGAAAACCGGCAGAGAAGCTGGAGCATGCTAACCGCCATCTGCTGCTCAGAGTGCCAGGAGCTCGAGAT  
 GCAGGCTAGAGCACATGGGCTTTCTCTTATCCCATCCACGGGTCTCTGCTCGCCTGATTTGGTGAATCGG  
 ATCATCAAGCAAGAACCAGTTCTTGAGAACTGCAGCCAGGAACTGTACAGCACCAGGCAGACCTGACAT  
 GCACAACGACTCTGGATCTCACGGACGGTACCATCTCCTTTACCAACAACCTCGGCACAATGCCTGAGAG  
 CAGCCCGGCTACAGCATCCCCAGGAAGATGGCCTCCAACCTTGGAAAGACATCCTGATGGACGATGCCCTC  
 TCACCTGTGGCGTCACCGACCCACTGCTGTATCAGTGTCCCCAGGAGCTTCGAAAACAAGCAGCCGGA  
 GGAGCAGTATGAGCGCAGAAGAACGGAGCATGCGTGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001191089
- 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001191089.2</a></u> , <u><a href="#">NP_001178018.1</a></u>
<b>RefSeq Size:</b>	4791 bp
<b>RefSeq ORF:</b>	1581 bp
<b>Locus ID:</b>	25094
<b>UniProt ID:</b>	<u><a href="#">O88368</a></u>
<b>Cytogenetics:</b>	4q34
<b>Gene Summary:</b>	basic helix-loop-helix-leucine zipper transcription factor; may play a role in osteoclast function [RGD, Feb 2006]