

## Product datasheet for **MC223074**

### **Tcof1 (BC021514) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tcof1 (BC021514) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tcof1  
**Synonyms:** AA408847; AW209012; treacle  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >BC021514  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCGAGGCCAGGAAGCGGCGGGAGCTGCTCCCTCATTTACCATCATCTGTTGCAAGCAGGCTACG  
TCCGCGCGGCGCGGAAGTAAAGGAGCAGAGCGGCCAGAAGAGTTTCTGACTCAGCCCGTACCCTTCT  
GGACATCTATACACTGGCAACAGACCTCAGAGCTTGCCAGAAGCAGAAGGCAGAGGATGATGAGACC  
TTTTCAGGCTAAGAAGTCTCGAGTGTGGATCCTGTTAGCAGCTCAGAGAGCTCGGATCAGAGAAGGAA  
AGGAGGCAGCAACCGAAAGGGCCAAAGCCACCCAAAGACCGACCTGTCAATCTGCAACCGCAGCTTT  
GCCATCAAAAGTAAAAGAAAAGGAAAGACCAAGACAGCCAACAAGACGGTGAATCTGTGTGCAACCT  
GGGTCCGAAAGACGGTGGTCCACCTGCTCTGGGAAGTCAACCAAGAAGTCAAGAGAGCCCTGGCAA  
ACACTGTCTTGGCTCAGAACTGAGGAGGAGGCAATGCCCAAGCCCTCGGACCCACTGCCAAGTCTGG  
AACGGTGTGAGCGGGCCAAAGGCAGCAGTCCAGTGAAGATTCTCCATCTCAAGCGATGAGACAGATGTC  
GAGGTGAAATCTCAGCAAAACCCAGCCCAGGCCAAAGTTCAGCAGCCCTGCCAAGGATCTCCAGCAA  
GAACAGCCCCAGGCCCTACCAAGTTAGGGAATGTGGCGCCACACCTGCTAAACCAGCCAGGGCGGCAGC  
GGCAGTGTCTGCTGTGGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
GACTCAGACAGTGAAGGACGAGGCCCTGCTGGTGTGCCCAGCCAGGTAAAAGCCTCTGAAAAGGTCCCC  
ATGTCAGAGCCGACTCGGTGTCTGCCAAGGGGATCTCTGGGAAAGGGCCCATTTAGCAACCCAGGGAA  
GACTGGGCTGCAGCCACCCAGGCCAAGGCAGAAAGGCCAGAGAAGGACTCGGAAACCCAGCAGTGAAGC  
GATTCTGATAGTGAAGTAAATGCCAGTCACTGTGAATACTCTCAGGCAAGGACTTCTGGGAAGGCC  
CTCGGGCCAGAGGTACCTCAGCCCCGCCAAGGAGTATCCCAGAAAGGGGCTCTGCGTCAACCCCTGG  
AAAGCAAGGCCCTGTGGCAGCCAGGCAGGAAACCAGAAGCCAAAGAGCAGTGAAGGAGTCAAGAGTGAC  
AGTGGGGAGACACCAGCTGCTGCGACTTGACCACGAGTCTGCCAAGGTGAAACCTTTGGGAAGAGCT  
CCCAGGTGAGACTGTTTCCACCGTCAACCCGGGGTCACTCGGAAAAGGTGCCAAGCTGCCTGCCTGG  
GAAGGTGGGTCAGCAGCTCTCAGGGTCCAATGGTAAAGAAAAGATGTCTCGGAGAGCAGCAGTGA  
GAGCTGGACAGTGAAGGCCCTGGAGCCAGCCAAGGCAAGGCCTCCCTTGGCTCCCTCAGAAGGTGA



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GGCCTGTGGCCACCCAGGTCAAGACTGACAGGGGCAAAGGCCACTCAGGGAGCAGTGAGGAGTCATCTGA  
 CAGCGAAGAGGAGGCAGCACCAGCAGCCTCTGCTGCTCAGGCTAAGCCAGCTCTGAAAAAGCAGATGAAA  
 GCTTCTCTAGGAAAGGCACGCCTGCATCCGCAACAGGAGCGAGCACCTCGTCCCATTGTAAGGCAGGAG  
 CGGTGACCTCTTCAGCCAGCCTGTATCCCCAGCTCTGGCCAAGGGCACCCAGAGGTCAGATGTGGACTC  
 TTCCAGTGAGTCTGAGTCAGAAGGAGTGTCTCCAGCACCCCAAGGTACAGGGGAAGTCTGGGGCAAG  
 GGCTCCAAGGGAAAGCTGCCTTGGGGCAAGGGGTGGCCCCAGTGCACACTCAGAAGACAGGGCCTTCGG  
 TCAAAGCTATGGCTCAGGAAGACTCAGAGAGCCTCGAGGAGGACTCCAGCAGCGAGGAAGAGGATGAGAC  
 CCCAGCACAGGCCACGCCCTTGGGGAGACTTCTCAGGCCAAAGCCAACCCACCTCCCCTAAGACACCT  
 CCAGCGTCTGCATCTGAAAAAGCTGTGGCTGTCCAACCAAGGGAAAAACCACTGTTCCGAACAGCACCG  
 TCTCTGCAAGGGGCCAGCGGTCTGTGCCAGCCGCGGAAAAAGCAGGGGCCCCAGCAACCCAGCCAGAA  
 GGGTCCCCTGGTGGCACAGGGGAGGACTCAGAGAGCAGCAGTAAAGAGGAGTCTGACAGTGAAGAAGAG  
 ACGCCAGCCAGATAAAACCTGTGGGAAGACCTCTCAGGTCAGAGCTGCCTCAGCCCCTGCCAAGGAGT  
 CTCCTAAAAAGGAGCCCATCCAGGAACCCCGGCAAGACGGGATCTTCAGTACCCAGGCCAGCCAGG  
 GAAGACAGAGGACTCAGACAGCAGTAGTGAAGAGTCTGACAGTGACACAGAGATGCCATCAGCCCAGGAT  
 GCTATCTCCAGCCTGCCAGAGGCAAAGGTCAGGTCCAGCGTCCCAGAGAAGAGCATAGAAGGGTCTCT  
 CAGAGAGCAGTGATGAGGATCTGCCTCCGGCCAGGCGATTAAATCCCCTCCAGTTTCTGTCAACCGTAA  
 CAGTAGTCCAGCTGTCCAGCTCTACCCAGAAAGGAGTCCAGGCTGTGAACACCACAAAGAAGGCCTCA  
 GGCACCACTGCCAGAGCTCCTCCTCTGAGAGTGAAGACGGGGACGAGGACTTGATTCTGCCACACAAC  
 CCTCCACCTATGCTCTCAGAACCAGTGTGACGACGCCCGCAGCCCTCTCAGGACAGCTTCCCAACCCAG  
 CAAGAGTGAGCAGTCTAGCCGGATGCCAAAAGGCAAGAAAGCAAGGGCGGCGGCTCCGCTCAGGTACTG  
 TCGGACCAGCAGTGCCGTGGAACACTCCCCATGATGCCTCCCAGAGCGCACCCATCCAGCCCCAAGCC  
 ACCAACAAAGCTCGGGAATCCAAGCTCCCTGA

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** BC021514
- Insert Size:** 3042 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:** [BC021514](#), [AAH21514](#)
- RefSeq Size:** 4088 bp
- RefSeq ORF:** 3041 bp

<b>Locus ID:</b>	21453
<b>Cytogenetics:</b>	18 34.41 cM
<b>Gene Summary:</b>	Nucleolar protein that acts as a regulator of RNA polymerase I by connecting RNA polymerase I with enzymes responsible for ribosomal processing and modification. Required for neural crest specification: following monoubiquitination by the BCR(KBTBD8) complex, associates with NOLC1 and acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification.[UniProtKB/Swiss-Prot Function]