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# Product datasheet for MC229570

## Tcof1 (NM_001198984) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Tcof1 (NM_001198984) 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:** | >MC229570 representing NM_001198984<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGCCGAGGCCAGGAAGCGGCGGGAGCTGCTTCCCCTCATTTACCATCATCTGTTGCAAGCAGGCTACG<br>TCCGCGCGGCGCGGGAAGTAAAGGAGCAGAGCGGCCAGAAGAGTTTCCTGACTCAGCCCGTCACCCTTCT<br>GGACATCTATACACACTGGCAACAGACCTCAGAGCTTGGCCAGAAGCAGAAGGCAGAGGATGATGAGACC<br>CTTCAGGCTAAGAAGTCTCGAGTGTCGGATCCTGTTAGCAGCTCAGAGAGCTCGGATCAGGAGAAGGAAG<br>AGGAGGCAGCAACCGAAAGGGCCAAAGCCACCCCAAGACCGACACCTGTCAATTCTGCAACCGCAGCTTT<br>GCCATCAAAAGTAAAAGAAAAGGGAAAGACCAAGACAGCCAACAAGACGGTGAACTCTGTGTCGCACCCT<br>GGGTCCGGAAAGACGGTGGTCCACCTGCTCTCTGGGAAGTCACCCAAAAAGTCAGCAGAGCCCTTGGCAA<br>ACACTGTCTTGGCCTCAGAAACTGAGGAGGAGGGCAATGCCCAAGCCCTCGGACCCACTGCCAAGTCTGG<br>AACGGTGTCAGCGGGCCAAGGCAGCAGTTCCAGTGAAGATTCCTCCATCTCAAGCGATGAGACAGATGTC<br>GAGGTGAAATCTCCAGCAAAACCAGCCCAGGCCAAAGCTTCAGCAGCCCCTGCCAAGGATCCTCCAGCAA<br>GAACAGCCCCAGGCCCTACCAAGTTAGGGAATGTGGCGCCCACACCTGCTAAACCAGCCAGGGCGGCAGC<br>GGCAGCTGCTGCTGCTGCTGTGGCTGCTGCTGCTGCTGCAGCAGCAGAAGAGTCTGAGAGCAGTGAGGAG<br>GACTCAGACAGTGAGGACGAGGCCCCTGCTGGTCTGCCCAGCCAGGTAAAAGCCTCTGGAAAAGGTCCCC<br>ATGTCAGAGCCGACTCGGTGTCTGCCAAGGGGATCTCTGGGAAAGGGCCCATCTTAGCAACCCCAGGGAA<br>GACTGGGCCTGCAGCCACCCAGGCCAAGGCAGAAAGGCCAGAGAAGGACTCGGAAACCAGCAGTGAGGAC<br>GATTCTGATAGTGAGGATGAAATGCCAGTCACTGTGAATACTCCTCAGGCAAGGACTTCTGGGAAGAGCC<br>CTCGGGCCAGAGGTACCTCAGCCCCCGCCAAGGAGTCATCCCAGAAAGGGGCTCCTGCAGTCACCCCTGG<br>AAAGGCAAGGCCTGTGGCAGCCCAGGCAGGGAAACCAGAAGCCAAGAGCAGTGAGGAGTCAGAGAGTGAC<br>AGTGGGGAGACACCAGCTGCTGCGACTCTGACCACGAGTCCTGCCAAGGTGAAACCTTTGGGGAAGAGCT<br>CCCAGGTCAGACCTGTTTCCACCGTCACCCCGGGGTCATCGGGAAAAGGTGCCAACCTGCCCTGCCCTGG<br>GAAGGTGGGGTCAGCAGCTCTCAGGGTCCAAATGGTAAAGAAAGAAGATGTCTCGGAGAGCAGCAGTGCA<br>GAGCTGGACAGTGACGGGCCTGGGAGCCCAGCCAAGGCAAAGGCCTCCCTTGCGCTCCCTCAGAAGGTGA |



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GGCCTGTGGCCACCCAGGTCAAGACTGACAGGGGCAAAGGCCACTCAGGGAGCAGTGAGGAGTCATCTGA
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AAGGCAAAATCAAAGCTTGACAAAGGGAGTGCTGGTGGCAAGGGGAAGGGGTCTCCTGGCCCCCAAGGAG
CCAAGGAGAAGCCCGACGGCGAGTTGCTGGGGATAAAGCTTGAGAGTGGCGAGCAGAGCGACCCGAAGAG
CAAGTCGAAAAAGAAGAAATCCCTCAAGAAAAAAAAAGACAAGGAGAAAAAGGAAAAGAAGAAAGGAAAA
AAGTCCCTGGCCAAAGACTCTGCCTCGCCGATCCAGAAGAAGAAAAAGAAGAAGAAGAAGTCAGCCGAGC
CTGCCGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001198984

**Insert Size:** 4071 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).

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| **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). |
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001198984.1, NP_001185913.1 |
| **RefSeq Size:** | 4679 bp |
| **RefSeq ORF:** | 4071 bp |
| **Locus ID:** | 21453 |
| **Cytogenetics:** | 18 34.41 cM |
| **Gene Summary:** | 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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |