

Product datasheet for MC224234

Tcof1 (NM_011552) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcof1 (NM_011552) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tcof1
Synonyms:	AA408847; AW209012; treacle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224234 representing NM_011552 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGGCCAGGAAGCGGGGAGCTGCTTCCCCTCATTTACCATCATCTGTTGCAAGCAGGCTACG
TCCGCGCGCGCGGAAGTAAAGGAGCAGAGCGGCCAGAAGATTTCTGACTCAGCCCCGACCCCTTCT
GGACATCTATACACTGGCAACAGACCTCAGAGCTTGGCCAGAAGCAGAAGGCAGAGGATGATGAGACC
CTTCAGGTAAGAAGTCTCGAGTGTGGATCCTGTTAGCAGCTCAGAGAGCTCGGATCAGGAGAAGGAAG
AGGAGGCAGCAACCGAAAGGGCCAAAGCCACCCCAAGACCGACACCTGTCAATTCTGCAACCGCAGCTTT
GCCATCAAAAGTAAAAGAAAAGGAAAGACCAAGACAGCCAACAAGACGGTGAACCTGTGTGCGACCCCT
GGTCCGAAAGACGGTGGTCCACCTGCTCTGGGAAGTCACCCAAAAAGTCAGCAGAGCCCTTGCAA
ACACTGTCTTGGCCTCAGAACTGAGGAGGAGGGCAATGCCCAAGCCCTCGGACCCACTGCCAAGTCTGG
AACGGTGTGAGCGGGCCAAGGCAGCAGTTCCAGTGAAGATTCTCCATCTCAAGCGATGAGACAGATGTC
GAGGTGAAATCTCCAGCAAAACAGCCAGGCCAAAGCTTCCAGCAGCCCTGCCAAGGATCTCCAGCAA
GAACAGCCCAGGCCCTACCAAGTTAGGGAATGTGGGCCACACCTGCTAAACCAGCCAGGGCGGCAGC
GGCAGCTGCTGCTGCTGTGGCTGCTGCTGCTGCTGCAGCAGCAGAAGAGTCTGAGAGCAGTGAGGAG
GACTCAGACAGTGAGGACGAGGCCCTGCTGGTCTGCCAGCGTAAAAGCCTCTGAAAAGGTCCCC
ATGTCAGAGCCGACTCGGTGCTGCCAAGGGATCTCTGGGAAAGGGCCATCTTAGCAACCCAGGGAA
GACTGGGCTGCAGCCACCCAGGCCAAGGCAGAAAGGCCAGAGAAGGACTCGGAAACCAGCAGTGAGGAC
GATTCTGATAGTGAGGATGAAATGCCAGTCACTGTGAATACTCCTCAGGCAAGGACTTCTGGGAAGGCC
CTCGGGCCAGAGGTACCTCAGCCCCGCAAGGAGTCAATCCAGAAAGGGCTCCTGCAGTACCCCTGG
AAAGGCAAGGCCGTGGCAGCCAGGCAGGAAACAGAAAGCCAAAGAGCAGTGAGGAGTCAAGAGTGAC
AGTGGGGAGACACCAGCTGCTGCGACTCTGACCACGAGTCTGCCAAGGTGAAACCTTTGGGAAGAGCT
CCCAGGTCAGACCTGTTCCACCGTCAACCCGGGGTCAATCGGAAAGGTGCCAACCTGCCCTGCCCTGG
GAAGGTGGGTCAGCAGCTCTCAGGTCCTCAATGTTAAAGAAAGAAGATGCTCTCGGAGAGCAGCAGTGCA



[View online »](#)

GAGCTGGACAGTGACGGGCTGGGAGCCAGCCAAGGCAAAGGCCTCCCTTGCCTCCCTCAGAAGGTGA
 GGCTGTGGCCACCCAGGTCAAGACTGACAGGGCAAAGGCCACTCAGGGAGCAGTGAGGAGTCACTGA
 CAGCGAAGAGGAGGCAGCACCAGCAGCCTCTGCTGCTCAGGCTAAGCCAGCTCTGAAAAAGCAGATGAAA
 GCTTCTCTAGGAAAGGCACGCCTGCATCCGCAACAGGAGCGAGCACCTCGTCCCATTGTAAAGCAGGAG
 CGGTGACCTCTTACCCAGCCTGTATCCCGAGCTCTGGCCAAGGGCACCCAGAGTCAAGTGTGGACTC
 TTCCAGTGAGTCTGAGTCAGAAGGAGTGTCTCCAGCACCCCAAGGTACAGGGGAAGTCTGGGGCAAG
 GGCTCCAAGGGAAAGTGCCTTGGGGCAAGGGTGGCCCAAGTGCACACTCAGAAGACAGGGCCTTCGG
 TCAAAGCTATGGCTCAGGAAGACTCAGAGAGCCTCGAGGAGGACTCCAGCAGTGAGGAAGAGGATGAGAC
 CCCAGCACAGGCCACGCCCTTGGGGAGACTTCTCAGGCCAAAGCCAACCCACTCCCACTAAGACACT
 CCAGCGTCTGCATCTGAAAAAGCTGTGGCTGTCCAACCAAGGGAAAACCACTGTTCCGAACAGCACCG
 TCTCTGAAGGGGCCAGCGGTCTGTGCCAGCCGGGAAAAGCAGGGGCCCAAGCCAAAGCCAGAA
 GGGTCCCGTGGCTGGCACAGGGGAGGACTCAGAGAGCAGCAGTAAAGAGGAGTCTGACAGTGAAGAAGAG
 ACGCCAGCCAGATAAAACCTGTGGGAAGACCTCTCAGGTCAGAGCTGCCTCAGCCCCTGCCAAGGAGT
 CTCCTAAAAAGGAGCCATCCAGGAACCCCGCAAGACGGGATCTTACAGTACCCAGGCCAGCCAGG
 GAAGACAGAGGACTCAGACAGCAGTGTGAAGAGTCTGACAGTGACACAGAGATGCCATCAGCCAGGGC
 ATTAATCCCCTCAGTTTCTGTCAACCGTAACAGTAGTCCAGCTGTCCAGCTCCTACCCAGAAAGGAG
 TCCAGGCTGTGAACACCACAAAGAAGGCCTCAGGCACCACTGCCAGAGCTCCTCCTCTGAGAGTGAGGA
 CGGGGACGAGGACTTGATTCTGCCACACAACCCCTCCACCTATGCTCTCAGAACCAGTGTGACGACGCC
 GCAGCCCTCTCAGGAGCAGTTCACCAACCCAGCAAGAGTGTGAGCAGTCTAGCCGGATGCCAAAAGGCAAGA
 AAGCAAAGGGCGGCGTCCGCTCAGACCAGCAGTGGCGTGGAAACACTCCCATGATGCCTCCCCAGAG
 CGCACCCATCCAGCCAAAGCCACCAACAAGCTCGGGAATCCAAGCTCCCTGAGAAGCAGCAGCTTGCC
 CCAGGCTACCCCAAGGCCCCAGGAGCTCGGAGGACAGCAGTGTGACTTCTTCCGAGGACGAGGAGGATG
 CCAGAGACCCCAAGTGCCTAAGTCCGCCCCACAGGCTGGATCCAGACCCTCCAGAAAGAAACTGTGGT
 AGAGGAGACCCCTACAGAATCCAGCAAGATGAGATGGTGGCCCTCACAGTCTCTCCTCTCAGGTTAC
 ATGACTCCCGGCTTACTGTGGCTAATCCAGGCTTCAAAGCTACTCCTAGGCCAGACTCCAACCTCT
 TAGCTTCTTGTCCCGGCCACCAAGACAACCCGGATGGCAAGCAGAAGTCAAAATCCCAACACGACG
 AGACACCCGACTCCCTAAAACCGGTAGGAAAGAGGCTCCTCGGGCTCCACGCCTCAGAAGCCAAAGAG
 CTCAAGAAGAGCACCTCAAGCTCGCCGGCCCCACACAGACTGCCGAACAGCATACCCAGCGCTCC
 TGGAGCAGGCTGGCCCTGAGCGAGGCGCAGGTGCAGGCCTCTGTGGTGAAGTCTGACAGAGCTTCT
 GGAGCAGGAACGGCTGAAGGCCACAGAGGCCATCAAGGAGAGTGGGAAGAAGAGCCAGAAGCGGAAGTTA
 TCAGGGGACCTAGAAGCTGGGGCCCAAGAACAAGAAGAAGAGGAGCAGCCAGTGCACAGGGCAAGCG
 CTGTTTCCCAGAAAAGGCTCCCATGACTTCCAAGGCAAAATCAAAGCTTGACAAAGGGAGTGTGGTGG
 CAAGGGGAAGGGGTCTCCTGGCCCCAAGGAGCCAAGGAGAAGCCGACGGCGAGTTGCTGGGGATAAAG
 CTTGAGAGTGGCGAGCAGAGCGACCCGAAGAGCAAGTCAAAAAAGAAGAAATCCCTCAAGAAAAAAAAG
 ACAAGGAGAAAAAGGAAAGAAGAAAGGAAAAAAGTCCCTGGCCAAGACTCTGCCTCGCCGATCCAGAA
 GAAGAAAAAGAAGAAGAAGTCAAGCCAGCCTGCCGTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_011552

Insert Size:

3963 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: [NM_011552.3](#), [NP_035682.1](#)

RefSeq Size: 4571 bp

RefSeq ORF: 3963 bp

Locus ID: 21453

UniProt ID: [O08784](#)

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 (2) lacks an in-frame alternate exon in the 3' coding region, compared to variant 1, and encodes a shorter isoform (2), compared to 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.