

Product datasheet for **MG211447**

Tcof1 (BC021514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcof1 (BC021514) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tcof1
Synonyms:	AA408847; AW209012; treacle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211447 representing BC021514 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGGCCAGGAAGCGGGGAGCTGCTTCCCCTCATTTACCATCATCTGTTGCAAGCAGGCTACG
TCCGCGCGGGCGGGAAGTAAAGGAGCAGAGCGGCCAGAAGATTTCTGACTCAGCCCCGACCCCTTCT
GGACATCTATACACTGGCAACAGACCTCAGAGCTTGGCCAGAAGCAGAAGGCAGAGGATGATGAGACC
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GCCATCAAAAGTAAAAGAAAAGGAAAGACCAAGACAGCCAACAAGACGGTGAACCTGTGTGCGACCCCT
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AACGGTGTGAGCGGGCCAAGGCAGCAGTTCCAGTGAAGATTCCTCCATCTCAAGCGATGAGACAGATGTC
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GAGCTGGACAGTGACGGGCTGGGAGCCCAGCCAAGGCAAAGGCCTCCCTTGCCTCCCTCAGAAGGTGA
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 TCGGACCAGCAGTGCCGTGGAAACACTCCCATGATGCCTCCCAGAGCGCACCCATCCAGCCCCAAAGCC
 ACCAACAAAGCTCGGAAATCCAAGCTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211447 representing BC021514
 Red=Cloning site Green=Tags(s)

MAEARKRRELLPLIYHLLQAGYVRAAREVKEQSGQKSFLLTQPVTLLEIYTHWQQTSELGQKQKAEDDET
 LQAKKSRVSDPVSSSESDQEKEEAATERAKATPRPTPVNSATAALPSKVKEKGTANKTVNSVSHP
 GSGKTVVHLLSGKSPKSAEPLANTVLASETEEEGNAQALGPTAKSGTVSAGQGSSESDSSISSDET
 EVKSPAKPAQAKASAAPAKDPPARTAPGPTKLGNAVPTPAKPARAAAAA AVAAAAAEESESSEE
 DSDSEDEAPAGLPSQVKASGKPHVRADSVSAKISGKGPILATPGKTGPAATQAKAERPEKDSETSSD
 DSDSEDEMPVTVNTQARTSGKSPRARGTSAPAKESSQKGA VTPGKARPVAAQAGKPEAKSSESESD
 SGETPAAATLTTSPAKVKPLGKSSQVRPVSTVTPGSSGKANLPCPGKVGSAALRVQMVKKEDVSESSA
 ELSDSDGPGSPAKAKASLALPQKVRPVATQVKTDRGKGHSSESESDSEEEAAPAASAAQAKPALEKQMK
 ASSRKGTPASATGASTSSHCKAGAVTSSASLSSPALAKGTQRSDVDSSESESEGAAPSTPRVQKSGGK
 GLQGKAALGQGVAPVHTQKTGPSVKAMAQEDSESLSEEDSSEEEDETPAQATPLGRLPQAKANPPPTKTP
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 TPAQIKPVGKTSQVRAASAPAKESPKKGAHPGTPGKTGS SATQAQPGKTEDSDSSSEESDTEMPSAQD
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 GTTAQSSSESESDGDEDLIPATQPSTYALRTSVTTPAALSRAASQPSKSEQSSRMPKGGKAKAAASAQVL
 SDQQCRGNTPHDASPERTHPAQSHQQAREIQAP

TRTRPLE - GFP Tag - V

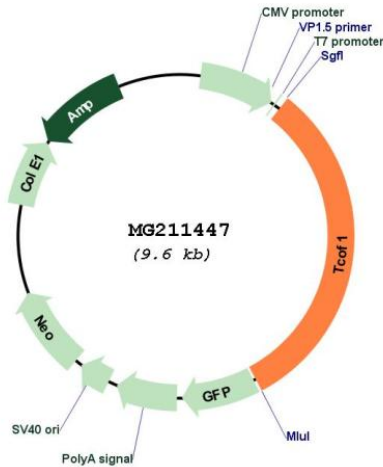
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC021514

ORF Size: 3039 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:	<ol style="list-style-type: none">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:	BC021514.1
RefSeq Size:	4088 bp
RefSeq ORF:	3041 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]