

Product datasheet for **RG203644**

Treacher Collins syndrome protein (TCOF1) (NM_001008657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Treacher Collins syndrome protein (TCOF1) (NM_001008657) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Treacher Collins syndrome protein
Synonyms:	MFD1; TCS; TCS1; treacle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203644 representing NM_001008657
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGGCCAGGAAGCGGGGAGCTACTTCCCTGATCTACCACCATCTGCTGCGGGCTGGCTATG
 TGGCTGCGGGCGCGGAAGTGAAGGAGCAGAGCGGCCAGAAGTGTTCCTGGCTCAGCCCGTAACCCCTCT
 GGACATCTATACACTGGCAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCA
 CTGCAAGCTAAGAAAACCGTGTGTGACACCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAG
 CAGAAGCCGAAACCGCCAAAGCCACCCCAAGACTAGCATCTACCAACTCCTCAGTCTGGGGCGGACTT
 GCCATCAAGCATGAAAGAAAAAGCCAAGGCAGAGACAGAGAAAGCTGGCAAGACTGGGAATTCATGCCA
 CACCCTGCCACTGGGAAGACGGTGGCAACCTTTCTGGGAAGTCTCCAGGAAGTCAGCAGAGCCCT
 CAGCAAACTACTACGTTGGTCTCAGAAACTGAGGAGGAGGGCAGCGTCCCGGCTTTGGAGCTGCTGCCAA
 GCCTGGGATGGTGTGAGCGGGCCAGGCCGACAGCTCCAGCGAGGACACCTCCAGTCCAGTGATGAGACA
 GACGTGGAGGGGAAACCTCAGTAAAACAGCCAGGTCAAAGCCTCATAGTTTCTACTAAGGAGTCTC
 CAGCAAGAAAGGCGGCCCCAGCCCTGGGAAGGTGGGGATGTGACACCCAGGTCAAAGGAGGGGCCCT
 GCCCCAGCCAAGAGGGCCAAGAAGCCAGAAGAGGAGTCAGAGAGTAGTGAGGAGGGATCTGAAAGTGAG
 GAGGAGGCCCTCGAGGGACACGAAGCCAGGTAAGGCCCTCTGAAAAAATTCTCCAGTCCAGAGTGCCT
 CAGCCCTGCCAAGGGGACCCCTGGGAAAGGGCTACCCAGCACCCCTGGGAAGGCAGGGGCTGTAGC
 TCCCAGACCAAGGCAGGAAGCCAGAGGAGGACTCAGAGAGCAGCAGCGAGGAGTATCTGACAGTGAG
 GAGGACGCGCAGCTGCCAAGGCCCTGCTTCCAGGCAAGGCCTCAGGAAAACTCTCAGTCCGAGCTG
 CCTCAGCCCTGCCAAGGAGTCCCCAGGAAAGGAGCTGCCAGCGCCCTGGGAAGCAGGGGCTGAGC
 AGTTGCCAAGGCCAGGGCGGGAAAGCGGGAGGAGGACTCGCAGAGCAGCAGCGAGGAATCGGACAGTGAG
 GAGGAGGCGCCTGCTCAGGCGAAGCCTTCAAGGAAGGCCCCAGGTCCAGAGCCGCTCGGCCCTGCCA
 AGGAGTCCCCAGGAAAGGGGCTGCCAGCACCTCTAGGAAAACAGGGCTGCAGCGCCAGGTCCA
 GGTGGGAAGCAGGAGGAGGACTCAAGAAGCAGCAGCGAGGAGTCCAGACAGTGCAGAGAGGCACTGGCA
 GCCATGAATGCAGCTCAGGTGAAGCCCTTGGGAAAAGCCCCAGGTGAAACCTGCCTCTACCATGGGCA
 TGGGGCCCTTGGGAAAGGCGCCGGCCAGTGCCACCCGGGAAGGTGGGGCTGCAACCCCTCAGCCCA
 GGTGGGAAGTGGGAGGAGGACTCAGAGAGCAGTGTGAGGAGTATCAGACAGCAGTGTGAGAGGTTG
 CCCACAGCTGTGGCCCGGCTCAGGAAAAGTCTTGGGAAACATCTCCAGGCCAAACCCACCTCCAGTC
 CTGCCAAGGGGCCCTCAGAAGGCAGGGCCTGTAGCCGTCCAGGTCAAGGCTGAAAAGCCATGGACAA
 CTCGGAGAGCAGCGAGGAGTATCGGACAGTGGGACAGTGGAGGACCAGCAGCCATGACTGCAGCT
 CAGGAAAACAGCTCTGAAAAATCCTCAGACCAAGGCCTGCCAAAAGAAAACCAATACCACTGCATCTG
 CCAAGGTCCGCTGTGCGAGTGGGCACCCAGCCCGGAAAGCAGGAACTGCGACTTCTCCAGCAGG
 CTCATCCCAGCTGTGGCTGGGGCACCCAGAGACCAGCAGAGGATTCTCAAGCAGTGAGGAATCAGAT
 AGTGAGGAAGAGAAGACAGGTCTTGCAAGTAAACCGTGGGACAGGCAAGTCTGTGGGAAAGGCTCCAGG
 TGAAAGCAGCCTCAGTGCCTGTCAAGGGTCTTGGGGCAAGGGACTGCTCCAGTACTCCCTGGGAAGC
 GGGGCTACAGTACCCAGGTGAAAGCTGAAAAGCAGGAAGACTCTGAGAGCAGTGAGGAGGAATCAGAC
 AGTGAGGAAGCAGCTGCATCTCCAGCACAGGTGAAAACCTCAGTAAAGAAAACCCAGGCCAAAGCCAACC
 CAGCTGCCCGCAGACCTTCCAGAAAAGGACAATTTCCAGCCCTGGAAAAGTTGCTACTGCAGCTGC
 TCAAGCCAAGCAGAGGTCTCCATCCAAGGTGAAGCCACCAGTGGAAAACCCAGAACAGTACCGTCTTG
 GCGAGGGGCCAGCATCTGTGCCATCTGTGGGAAAGCCGTGGCTACAGCAGCTCAGGCCAGACAGGGC
 CAGAGGAGGACTCAGGGAGCAGTGGAGGAGTCCAGACAGTGGAGGAGGCGGAGACGCTGGCTCAGGT
 GAAGCCTCAGGGAAGACCCACAGATCAGAGCTGCCTTGGCTCCTGCCAAGGAGTCCCCAGGAAAGGG
 GCTGCCCAACACCTCTGGGAAGCAGGGCCTTCGGCTGCCAGGCAGGGAAGCAGGATGACTCAGGGA
 GCAGCAGCGAGGAATCAGACAGTGTGGGAGGACCCGCGAGCTGTGACCTCTGCCAGGACCAGGAGTC
 TTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203644 representing NM_001008657
 Red=Cloning site Green=Tags(s)

MAEARKRRELLPLIYHLLRAGYVRAAREVKEQSGQKCFLAQPVTLLDIYTHWQQTSELGRKRKAEDAA
 LQAKKTRVSDPISTSESEEEEEAEATAKATPRLASTNSSVLGADLPSSMKEKAKAETEKAGKTGNSMP
 HPATGKTVANLLSGKSPRKSAPESANTTLVSETEEEGVPFAGAAKPGMVSAGQADSSSEDTSSSSDET
 DVEGKPSVKPAQVKASSVSTKESPARKAAPAPGKVGDTVTPQVKGALPPAKRKKPEESESSEEGSESE
 EEAPAGTRSQVKASEKILQVRAASAPAKGTPGKGATPAPPGKAGAVASQTKAGKPEEDESSESSESDSE
 EETPAAKALLQAKASGKTSQVGAASAPAKE SPRKGAAPAPPKGTGPAVAKAQAGKREEDSQSSSESDSE
 EEAPAQAKPSGKAPQVRAASAPAKE SPRKGAAPAPPRKTGPAAAQVQVKGQEEEDSRSSSESDSDREALA
 AMNAAQVKPLGKSPQVKPASTMGMGLGKAGPVPPGKVGPAATPSAQVKGWEEDSESSESSDSDGGEV
 PTAVAPAQEKSLGNILQAKPTSSPAKPPQKAGPVAVQVKA EKPMDNSESSESSDSADSEEAPAAMTAA
 QAKPALKIPQTKACPKTNTTASAKVAPVRVGTQAPRKAGTATSPAGSSPAVAGGTQRPADSSSEESD
 SEEEKTGLAVTVGQAKSVGKGLQVKAASVPVKGSLGQGTAPVLPKGTGPTVTQVKA EKQEDSESSEESD
 SEEAASPAQVKTSVKKTQAKANPAAARAPSAKGTISAPGKVVTAAAQAKQRSPSKVKPPVRNPQNSTVL
 ARGPASVPSVGKAVATAAQAQTGPEEDSGSSEESDSEEEAETLAQVKPSGKTHQIRAALAPAKESPRKG
 AAPTTPGKTGPSAAQAGKQDDSGSSSESDSDGEAPAAVTSAQDQESS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

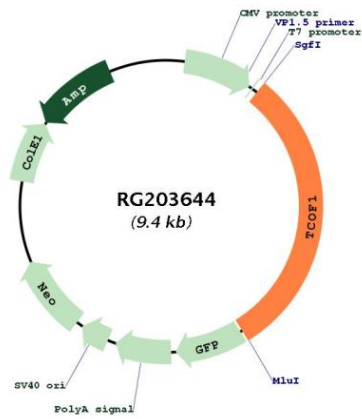


ACCN: NM_001008657

ORF Size: 2874 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:	NM_001008657.3
RefSeq Size:	3827 bp
RefSeq ORF:	2877 bp
Locus ID:	6949
UniProt ID:	Q13428
Cytogenetics:	5q32-q33.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Gene Summary:	This gene encodes a nucleolar protein with a LIS1 homology domain. The protein is involved in ribosomal DNA gene transcription through its interaction with upstream binding factor (UBF). Mutations in this gene have been associated with Treacher Collins syndrome, a disorder which includes abnormal craniofacial development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RG203644