

## Product datasheet for **SC301334**

### Treacher Collins syndrome protein (TCOF1) (NM\_001008656) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Treacher Collins syndrome protein (TCOF1) (NM_001008656) Human Untagged Clone
Tag:	Tag Free
Symbol:	Treacher Collins syndrome protein
Synonyms:	MFD1; nucleolar trafficking phosphoprotein; Treacher Collins-Franceschetti syndrome 1; Treacher Collins syndrome protein; treacle
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001008656 edited  
 ATGGCCGAGGCCAGGAAGCGGGGAGCTACTTCCCCTGATCTACCACCATCTGCTGCGG  
 GCTGGCTATGTGCGTGCGGCGCGGAAGTGAAGGAGCAGAGCGGCCAGAAAGTGTTCCTG  
 GCTCAGCCCGTAACCCCTTCTGGACATCTATACACTGGCAACAAACCTCAGAGCTTGGT  
 CGGAAGCGGAAGGCAGAGGAAGATGCGGCACTGCAAGCTAAGAAAACCCGTGTGTGAGC  
 CCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAGCAGAAGCCGAAACCGCCAAA  
 GCCACCCCAAGACTAGCATCTACCAACTCCTCAGTCTGGGGGCGGACTTGCCATCAAGC  
 ATGAAAGAAAAAGCCAAGGCAGAGACAGAGAAAGCTGGCAAGACTGGGAATTCATGCCA  
 CACCCTGCCACTGGGAAGACGGTGGCCAACTTCTTTCTGGGAAGTCTCCAGGAAGTCA  
 GCAGAGCCCTCAGCAAATACTACGTTGGTCTCAGAAACTGAGGAGGAGGGCAGCGTCCCG  
 GCCTTTGGAGCTGCTGCCAAGCCTGGGATGGTGTGACGGGCCAGGCCGACAGCTCCAGC  
 GAGGACACCTCCAGCTCCAGTGATGAGACAGACGTGGAGGGGAAACCCCTCAGTAAACCA  
 GCCCAGGTCAAAGCCTCATCAGTTTCTACTAAGGAGTCTCCAGCAAGAAAGCGGCCCA  
 GCCCTGGGAAGGTGGGGATGTGACACCCAGGTCAAAGGAGGGCCCTGCCCCAGCC  
 AAGAGGGCCAAGAAGCCAGAAGAGGAGTCAAGAGTAGTGAGGAGGGATCTGAAAGTGAG  
 GAGGAGGCCCTGCAGGGACACGAAGCCAGGTAAGGCCCTCTGAAAAATTCTCCAGGTC  
 AGAGCTGCCTCAGCCCCTGCCAAGGGGACCCCTGGGAAAGGGGCTACCCAGCACCCCT  
 GGGAAAGCAGGGGCTGTAGCCTCCAGACCAAGGCAGGGAAGCCAGAGGAGGACTCAGAG  
 AGCAGCAGCGAGGAGTCTATGACAGTGAGGAGGAGACGCCAGCTGCCAAGGCCCTGCTT  
 CAGGCGAAGGCCCTCAGAAAAACCTCTCAGGTGCGAGCTGCCTCAGCCCCTGCCAAGGAG  
 TCCCCCAGGAAAGGAGCTGCCCCAGCAGCCCCCTGGGAAGACAGGGCCTGCAGTTGCCAAG  
 GCCCAGCGGGGAAGCGGGAGGAGGACTCGCAGAGCAGCAGCGAGGAATCGGACAGTGAG  
 GAGGAGGCGCCTGCTCAGGCGAAGCCTTCAAGGAAGGCCCCCAAGGTGAGAGCCGCTCG  
 GCCCTGCCAAGGAGTCCCCCAGGAAAGGGGCTGCCCCAGCACCTCTAGGAAAACAGGG  
 CCTGCAGCCGCCAGGTCCAGGTGGGGAAGCAGGAGGAGGACTCAAGAAGCAGCAGCGAG  
 GAGTCAGACAGTGACAGAGAGGCACTGGCAGCCATGAATGCAGCTCAGGTGAAGCCCTTG



[View online »](#)

GGGAAAAGCCCCAGGTGAAACCTGCCTTACCATGGGCATGGGGCCCTTGGGAAAGGC  
 GCCGGCCAGTGCCACCCGGGAAGGTGGGGCTGCAACCCCTCAGCCAGGTGGGGAAG  
 TGGGAGGAGGACTCAGAGAGCAGTAGTGAGGAGTCATCAGACAGCAGTGATGGAGAGGTG  
 CCCACAGCTGTGGCCCCGGCTCAGGAAAAGTCCTTGGGAAACATCCTCCAGGCCAAACCC  
 ACCTCCAGTCTGCCAAGGGGCCCTCAGAAGGCAGGGCCTGTAGCCGTCCAGGTCAAG  
 GCTGAAAAGCCCCATGGACAACCTCGGAGAGCAGCGAGGAGTCATCGGACAGTGCGGACAGT  
 GAGGAGGCACCAGCAGCCATGACTGCAGCTCAGGCAAAACCCAGCTGAAAATTCCTCAG  
 ACCAAGGCCTGCCCAAAGAAAACCAATACCACTGCATCTGCCAAGGTGCGCCCTGTGCGA  
 GTGGGCACCCAAGCCCCCGAAAAGCAGGAACTGCGACTTCTCCAGCAGGCTCATCCCCA  
 GCTGTGGCTGGGGCACCCAGAGACCAGCAGAGGATTCTTCAAGCAGTGAGGAATCAGAT  
 AGTGAGGAAGAGAAGACAGGTCTTGCAGTAACCGTGGGACAGGCAAAGTCTGTGGGGAAA  
 GGCCTCCAGGTGAAAAGCAGCCTCAGTGCCTGTCAAGGGTCTTGGGGCAAGGGACTGCT  
 CCAGTACTCCCTGGGAAGACGGGCCTACAGTACCCAGGTGAAAGCTGAAAAGCAGGAA  
 GACTCTGAGAGCAGTGAGGAGGAATCAGACAGTGAGGAAGCAGTGCATCTCCAGCACAG  
 GTGAAAACCTCAGTAAAGAAAACCCAGGCCAAAGCCAACCCAGCTGCCGCCAGAGCACCT  
 TCAGAAAAGGGACAATTCAGCCCTGAAAAGTTGTCAGTGCAGCTGCCTCAAGCCAAG  
 CAGAGGTCTCCATCCAAGGTGAAGCCACAGTGAGAAAACCCCAAGCAGTACCGTCTTG  
 GCGAGGGGCCAGCATCTGTGCCATCTGTGGGAAGGCCGTGGCTACAGCAGCTCAGGCC  
 CAGACAGGGCCAGAGGAGGACTCAGGGAGCAGTGAGGAGGAGTCAGACAGTGAGGAGGAG  
 GCGGAGACGCTGGCTCAGGTGAGCCTTTCAGGGAAGACCCACAGATCAGAGTGCCTTG  
 GCTCCTGCCAAGGAGTCCCCAGGAAAGGGCTGCCCAACACCTCCTGGGAAGCAGGG  
 CCTTCGGCTGCCAGGCAGGGAAGCAGGATGACTCAGGGAGCAGCAGCGAGGAATCAGAC  
 CAGTGTGGGAGGCACCCGCGAGCTGTGACCTCTGCCAGGTGATTAACCCCTCTGATT  
 TTTGTGACCCCTAATCGTAGTCCAGTGGCCAGCTGCTACACCCGCACAAGCCAGGCT  
 GCAAGCACCCGAGGAAGGCCGAGCCTCGGAGAGCACAGCCAGGAGCTCCTCCTCCGAG  
 AGCGAGGATGAGGACGTGATCCCCGCTACACAGTGCTTGACTCCTGGCATCAGAACCAAT  
 GTGGTGACCATGCCCACTGCCACCCAAGAATAGCCCCAAAGCCAGCATGGCTGGGGCC  
 AGCAGCAGCAAGGAGTCCAGTCCGATATCAGATGGCAAGAAACAGGAGGGACCAGCCACT  
 CAGGTTGACAGTGTGTGGAACTCCCTGCAACAAGTCCCAGAGCACCTCCGTCAG  
 GCCAAAGGGACCAACAAGCTCAGAAAACCTAAGCTTCTGAGGTCCAGCAGGCCACCAAA  
 GCCCTGAGAGCTCAGATGACAGTGAGGACAGCAGCGACAGTTCTTCAGGGAGTGAGGAA  
 GATGGTGAAGGGCCCCAGGGGGCCAAGTCAAGCCACACGCTGGTGGTCCACCCCTCC  
 AGGACAGAGACCCCTGGTGGAGGAGACCCGAGCAGAGTCCAGCAGGATGATGTGGTGGCG  
 CCATCCCAGTCTCCTCTCAGGTTATATGACCCCTGGACTAACCCAGCCAATTCACAG  
 GCCTCAAAGCCACTCCCAAGCTAGACTCCAGCCCTCAGTTTCTCTACTCTGGCCGCC  
 AAAGATGACCCAGATGGCAAGCAGGAGGCAAAGCCCCAACAGGCAGCAGGCATGTTGTCC  
 CCTAAAACAGGTGGAAAAGAGGCTGCTTCAGGCACACACCTCAGAAGTCCCGGAAGCCC  
 AAGAAAAGGGCTGGGAACCCCAAGCCTCAACCTGGCGCTGCAAAGCAACATCACCCAG  
 TGCTCCTGGGCCAACCTGGCCCTGAATGAGGCCAGGTGCAGGCCTCAGTGGTGAAG  
 GTCCTGACTGAGCTGCTGGAACAGGAAAGAAAGAGGTGGTGGACACCACCAAGGAGAGC  
 AGCAGGAAGGGCTGGGAGAGCCGCAAGCGGAAGCTATCGGGAGACCAGCCAGTGCAGG  
 ACCCCAGGAGCAAGAAGAAGAAGAGTGGGGCCGGGGAAGGTGGGAGGCCTCTGTT  
 TCCCCAGAAAAGACCTCCACGACTTCCAAGGGAAAGCAAAGAGAGACAAAGCAAGTGGT  
 GATGTCAAGGAGAAGAAGGGAAGGGTCTCTTGGCTCCAAGGGGCCAAGGACGAGCCA  
 GAAGAGGAGCTTCAAGAGGGATGGGGACGTTGAAGGTGGAGATCAAAGCAACCCAAAG  
 AGCAAGAAGGAGAAGAAGAAATCCGACAAGAGAAAAAAGACAAAGAAAAAAGAAAAAG  
 AAGAAGAAAGCAAAAAAGCCTCAACCAAGATTCTGAGTACCCTGCCAGAAGAAAAAG  
 AAGAAAAAGAAGAAGACAGCAGAGCAGACTGTATGA

Restriction Sites:

Please inquire

ACCN:

NM\_001008656

<b>Insert Size:</b>	4300 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	ORF matches with reference and there is an additional Leu at the 1135th of amino acids in ORF. This is not due to mutation because several ESTs carry the same additional amino acid.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001008656.1</a></u> , <u><a href="#">NP_001008656.1</a></u>
<b>RefSeq Size:</b>	4966 bp
<b>RefSeq ORF:</b>	4353 bp
<b>Locus ID:</b>	6949
<b>Cytogenetics:</b>	5q32-q33.1
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) lacks the alternate in-frame exon 21, also known as XIX, in the central coding region, compared to variant 4. The resulting isoform (a) lacks an internal segment but has the same N- and C-termini, compared to isoform d.</p>