

## Product datasheet for **SC326380**

### Treacher Collins syndrome protein (TCOF1) (NM\_001135244) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Treacher Collins syndrome protein (TCOF1) (NM\_001135244) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TCOF1  
**Synonyms:** MFD1; TCS; TCS1; treacle  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001135244, the custom clone sequence may differ by one or more nucleotides

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AAGAAAAAGAAGAAGACAGCAGAGCAGACTGTA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001135244

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001135244.1</a></u> , <u><a href="#">NP_001128716.1</a></u>
<b>RefSeq Size:</b>	5002 bp
<b>RefSeq ORF:</b>	4356 bp
<b>Locus ID:</b>	6949
<b>UniProt ID:</b>	<u><a href="#">Q13428</a></u>
<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 (5) lacks the alternate in-frame exon 21, also known as XIX, and uses an alternate in-frame splice site in the central coding region, compared to variant 4. The resulting isoform (e) lacks an internal segment, contains a one residue insertion, and has the same N- and C-termini, compared to isoform d.</p>