

Product datasheet for **SC126432**

Treacher Collins syndrome protein (TCOF1) (NM_001008657) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Treacher Collins syndrome protein (TCOF1) (NM_001008657) Human Untagged Clone
Tag:	Tag Free
Symbol:	Treacher Collins syndrome protein
Synonyms:	MFD1; TCS; TCS1; treacle
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001008657 edited
 AGGTAGCCGGCCGCGGGGTTCGGGTATGGCCGAGGCCAGGAAGCGCGGGAGCTAC
 TTCCCCTGATCTACCACCATCTGCTGCGGGTGGCTATGTGCGTGCGGCGCGGAAGTGA
 AGGAGCAGAGCGCCAGAAGTGTTCCTGGCTCAGCCCGTAACCTTCTGGACATCTATA
 CACACTGGCAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCAC
 TGCAAGCTAAGAAAACCGTGTGTGAGACCCATCAGACCTCGGAGAGCTCGGAAGAGG
 AGGAAGAAGCAGAAGCCGAAACCGCCAAAGCCACCCCAAGACTAGCATCTACCAACTCT
 CAGTCCTGGGGCGGACTTGCCATCAAGCATGAAAGAAAAGCCAAGGCAGAGACAGAGA
 AAGCTGGCAAGACTGGGAATTCATGCCACACCCTGCCACTGGGAAGACGGTGGCCAACC
 TTCTTTCTGGGAAGTCTCCAGGAAGTCAGCAGAGCCCTCAGCAATACTACGTTGGTCT
 CAGAAACTGAGGAGGAGGCAGCGTCCCGCCTTTGGAGCTGCTGCCAAGCCTGGGATGG
 TGTGAGCGGGCCAGGCCGACAGCTCCAGCGAGGACACCTCCAGCTCCAGTGATGAGACAG
 ACGTGGAGGGGAAACCTCAGTAAAACAGCCAGGTCAAAGCCTCATCAGTTTCTACTA
 AGGAGTCTCCAGCAAGAAAGCGGCCCCAGCCCTGGGAAGGTGGGGGATGTGACACCC
 AGGTCAAAGGAGGGGCCCTGCCCCAGCCAAGAGGGCCAAGAAGCCAGAAGAGGAGTCAG
 AGAGTAGTGAGGAGGGATCTGAAAGTGAGGAGGAGGCCCTGCAGGGACACGAAGCCAGG
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 TCGGAGCTGCCTCAGCCCTGCCAAGGAGTCCCCAGGAAAGGAGCTGCCCCAGCGCCCC
 CTGGGAAGACAGGGCCTGCAGTTGCCAAGGCCAGGCGGGGAAGCGGAGGAGGACTCGC
 AGAGCAGCAGCGAGGAATCGGACAGTGAGGAGGAGGCGCCTGCTCAGGCGAAGCCTTCAG
 GGAAGGCCCCAGGTGAGGCCCTCGGCCCTGCCAAGGAGTCCCCAGGAAAGGGG
 CTGCCCCAGCACCTCTAGGAAAACAGGGCCTGCAGCCGCCAGGTCCAGGTGGGGAAGC
 AGGAGGAGGACTCAAGAAGCAGCAGCGAGGAGTCAGACAGTGACAGAGAGGCACTGGCAG
 CCATGAATGCAGCTCAGGTGAAGCCCTTGGGAAAAGCCCCAGGTGAAACCTGCCTCTA



CCATGGGCATGGGGCCCTTGGGGAAAGGCGCCGCCCAGTGCCACCCGGGAAGGTGGGGC
 CTGCAACCCCTCAGCCAGGTGGGGAAGTGGGAGGAGGACTCAGAGAGCAGTAGTGAGG
 AGTCATCAGACAGCAGTGATGGAGAGGTGCCACAGCTGTGGCCCCGGCTCAGGAAAAGT
 CCTTGGGGAACATCCTCCAGGCCAAACCCACCTCCAGTCTGCCAAGGGGCCCTCAGA
 AGGCAGGGCCTGTAGCCGTCCAGGTCAAGGCTGAAAAGCCCATGGACAACCTCGGAGAGCA
 GCGAGGAGTCATCGACAGTGGGACAGTGAGGAGGCACCAGCAGCCATGACTGCAGTCT
 AGGCAAAACCCAGCTCTGAAAATTCTCAGACCAAGGCCCTGCCAAAGAAAACCAATACCA
 CTGCATCTGCCAAGGTCCGCCCTGTGCGAGTGGGCACCCAAGCCCCCGAAAGCAGGAA
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 AGGATTCTTCAAGCAGTGAGGAATCAGATAGTGAGGAAGAGAAGACAGGTCTTGCAGTAA
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 TCAAGGGTCTTGGGGCAAGGGACTGCTCCAGTACTCCCTGGGAAGACGGGGCTACAG
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 GTGAGGAAGCAGTGCATCTCCAGCACAGGTGAAAACCTCAGTAAAGAAAACCCAGGCCA
 AAGCCAACCCAGTGGCCAGAGCACCTTCCAGAAAAGGGACAATTTCCAGCCCCTGAA
 AAGTTGTCACTGCAGTCTCAAGCCAAGCAGAGGTCTCCATCCAAGGTGAAGCCACCAG
 TGAGAAAACCCAGAACAGTACCGTCTTGGCGAGGGGCCAGCATCTGTGCCATCTGTGG
 GGAAGGCCGTGGCTACAGCAGCTCAGGCCAGACAGGGCCAGAGGAGGACTCAGGGAGCA
 GTGAGGAGGAGTCAAGCAGTGAGGAGGAGGCGGAGACGCTGGCTCAGGTGAAGCCTTCA
 GGAAGACCCAGATCAGAGTGCCTTGGCTCTGCCAAGGAGTCCCCAGGAAAGGGG
 CTGCCCCAACCTCTGGGAAGACAGGGCCTTCGGCTGCCAGGCAGGGAAGCAGGATG
 ACTCAGGAGCAGCAGCGAGGAATCAGACAGTGATGGGAGGCACCGGCAGCTGTGACCT
 CTGCCCCAGGACAGGAGTCTTCTTGAATCCCATGAGCTCTGCCAGGACCCTCTCTCAAG
 CACTGTGGCATACCTTCAATGTGCTCCACTGCACCCAGAGCTTAAGCCACAGTCCCTGCTC
 AGGCTACACCTCAAGGGTGGGACCAGGCCACCTTATCTTCTGTACTCCAGAGGCCCA
 AGTCAGCCATGCTGGTGTGGTCCAAGCTTCTGTGTGAACCCTGGCCCTTCCATCAGACAG
 CATTACCTTTGTCTCTCTAGCCCCAAGCTCCAGAAAGCTTCTGCCAGGCACCTCAGA
 GCACAGCTCCCCTGTCCAGGGCCTAACCACAGATCCTGGAGTCTGCAACCTCCAGAC
 CAGAGCGTCTCATGAACCCTCCCCTTGAATATCACATACCACATTGTATCAATTCA
 TCAGTAAGGTCAAGTGTGTTTGCACACCTCCAGCAATAGGGTGTCACTGCCTCTCACT
 TTCCAATGGCACAGATTACAAAAGTAAAGAACAACCACCAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001008657 unedited
 GGGTTAGATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGAGGTAGCC
 GGCCGGCCGGGGTTCGGGTATGGCCGAGGCCAGGAAGCGGGGAGCTACTTCCCCTG
 ATCTACCACCATCTGCTGCGGGCTGGCTATGTGCGTGCAGCGCGGGAAGTGAAGGAGCAG
 AGCGGCCAGAAGTGTTCCTGGCTCAGCCCGTAACCTTCTGGACATCTATACACTGG
 CAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCACTGCAAGCT
 AAGAAAACCCGTGTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAA
 GCAGAAGCCGAAACCCGCAAGGCCACCCCAAGACTAGCATCTACCAACTCCTCAGTCTG
 GGGCGGACTTGGCATCAAGCATGAAAGAAAAGCCAAGGCAGAGACAGAGAAAGCTGGC
 AAGACTGGGAATTCATGCCACACCTGCCACTGGGAAGACGGTGGCCAACTTCTTTCT
 GGGAACTCTCCAGGAAGTCAAGCAGAGCCCTCAGCAAATACTACGTTGGTCTCAGAACT
 GAGGAGGAGGGCAGCGTCCCGCCTTTGGAGCTGCTGCCAAGCCTGGGATGGTGTACGG
 GGCCAGGCCGACAGCTCCAGCAGGACACCTCCAGCTCCAGTGATGAGACAGACGTGGAG
 GGGAAACCTCAGTAAAACCCAGCCCAAGTCAAAGCCTCATCAGTTTCTACTAAGGAGTCT
 CCAGCAAGAAAAGCNGCCCCAGCCCTGGGAGGTGGNGGATGTGACACCCCAAGTCAAA
 GGAGGGCCCTGCCCCAGCCAAGAGGTCCAAGNAGCCNNAGAGGAGTCAAGAGTATT
 GAGGAGGGATCTGG

Restriction Sites:

Please inquire

ACCN:

NM_001008657

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:	<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:	<u>NM_001008657.1</u> , <u>NP_001008657.1</u>
RefSeq Size:	3827 bp
RefSeq ORF:	2877 bp
Locus ID:	6949
UniProt ID:	<u>Q13428</u>
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] Transcript Variant: This variant (3) uses an alternate terminal exon and lacks 10 3' exons, compared to variant 4. The resulting isoform (c) has a significantly shorter and distinct C-terminus, compared to isoform d.