

## Product datasheet for **MR230299**

### **Tcp1 (NM\_001290712) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tcp1 (NM_001290712) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcp1
Synonyms:	A1528772; c-cpn; CCT; Cct1; Ccta; p63; Tcp-1; Tp63; TRic
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230299 representing NM\_001290712  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGTAACCATTACTAACGATGGTCCACCATCCTGAAGTTACTGGAGGTAGAACATCCCGCAGCCA  
 AAGTTCTGTGTGAGCTGGCTGACCTGCAAGACAAAGAAGTTGGAGATGGAACCTCAGTGGTAATCAT  
 TGCAGCGGAGCTTCTGAAAAATGCAGATGAGCTAGTCAAACAGAAAATTCATCCAACATCAGTTATTAGT  
 GGCTATCGTCTTGCTGCAAGGAAGCGGTGCGTTATATCAATGAGAACCTGATTATTAACACAGACGAAC  
 TTGGAAGAGACTGTCTGATCAATGCTGCTAAGACATCCATGTCATCCAAAATTATTGGAATAAATGGTGA  
 TTACTTTGCTAATATGGTAGTAGATGCTGTGCTTGTGTTAAATACACAGATGCCAGAGGCCAGCCTCGC  
 TATCCAGTCAATTCTGTTAATATTCTGAAAGCCCATGGGAGAAGTCAGATAGAAAGCATGCTGATCAATG  
 GCTATGCGCTCAATTGTGTGGTTGGATCTCAGGGCATGCCAAGAGAATAGTTAATGCAAAAATTGCTTG  
 TCTTGACTTCAGCTGCAGAAAACAAAAATGAAGCTTGGTGTACAGGTGGTTATTACAGACCCTGAGAAA  
 TTGGACCAAAATTAGACAGAGAGAATCGGATATCACCAAGGAGAGAATTCAGAAGATCCTGGCAACTGGTG  
 CCAATGTTATTCTAACCTGGTGGCATTGATGATATGTATCTCAAGTATTTTGTGGAAGCTGGTGCCAT  
 GGCTGTTAGGAGAGTTTTAAAACGAGACCTGAAGCATGTTGCAAAAGCTTCTGGAGCAAGTATCCTGTCT  
 ACGCTGGCCAATTTGGAAGGCGAAGAACTTTTGAAGTGACGATGTTGGGACAAGCGGAAGAGGTGCTAC  
 AGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAGGCTCGTACATCTGCTTCAATCAT  
 CTTACGAGGAGCAATGATTTTCAATGTGTGATGAAATGGAGCGCTTTTACATGATGCTCTTTGTGTGGTG  
 AAGAGAGTTTTGGAGTTGAAATCTGTGGTCCCAGGTGGAGGTGCTGTAGAAGCTGCCCTGCCATATACC  
 TGGAAAACATGCAACAAGCATGGGATCTCGGGAACAGCTTGTATTGCAGAGTTTCAAGATCTCTGCT  
 TGTGATTCTTAATACACTGGCAGTGAATGCTGCCAGGACTCCACCGACCTGGTTGCCAAGTTAAGAGCT  
 TTTCAATGAGGCTCAAGTGAACCCGGAACGTAATAAATCTAAAGTGGATTGGTCTTGATTGGTCCATG  
 GGAAACCACGAGACAACAAGCAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTGAAGAGCCTGAAGTT  
 CGCAACAGAGGCTGCAATCACCATCCTTCGGATTGATGATCTGATAAAAATTACACCCAGAAAGCAAAAGAC  
 GATAAACCGGAAGTTATGAAAATGCTGTTCACTCTGGAGCCCTTGATGAC

**ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR230299 representing NM\_001290712  
 Red=Cloning site Green=Tags(s)

MDVITITNDGATILKLLLEVEHPAAKVLCELADLQDKEVGDGTTSVVIAAELLKNADELVKQKIHPTSVIS  
 GYRLACKEAVRYINENLIINTDELGRDCLINAAKTSMSSKIIGINGDYFANMVVDAVLAVKYTDARGQPR  
 YPVNSVNILKAHGRSQIESMLINGYALNCVVGSQGMPKRIVNAKIACLDFSLQKTKMKLGVQVVIDPEK  
 LDQIRQRESDIKTERIQKILATGANVILTTGGIDMYLKVFVEAGAMAVRRVLKRDCLKHVAKASGASILS  
 TLANLEGEETFVETMLGQAEVQERICDDELILIKNTKARTSASIIIRGANDFMCDEMERSLHDALCVV  
 KRVLLEKSVVPGGAVEAALSIYLENYATSMGSREQLAIAEFARSLLVIPNTLAVNAAQDSTDVLAKLRA  
 FHNEAQVNPERKNLKWIGLDLVHGKPRDNKQAGVFEPTIVKVKSLKFATEAAITILRIDDLIKLHPESKD  
 DKHGSYENAVHSGALDD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_001290712

**ORF Size:** 1521 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:**

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\\_001290712.1](#), [NP\\_001277641.1](#)
**RefSeq Size:** 2413 bp

**RefSeq ORF:** 1524 bp

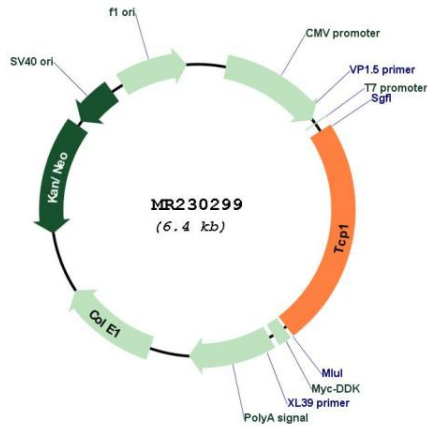
**Locus ID:** 21454

**UniProt ID:** [P11983](#)
**Cytogenetics:** 17 8.72 cM

**MW:** 55.9 kDa

**Gene Summary:** Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of proteins upon ATP hydrolysis. The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance. As part of the TRiC complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. The TRiC complex plays a role in the folding of actin and tubulin.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230299