OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC109713

TCP1 alpha (TCP1) (NM_030752) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 alpha (TCP1) (NM_030752) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCP1 alpha
Synonyms:	CCT-alpha; CCT1; CCTa; D6S230E; TCP-1-alpha
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC109713 sequence for NM_030752 edited (data generated by NextGen Sequencing)

ATGGAGGGGCCTTTGTCCGTGTTCGGTGACCGCAGCACTGGGGAAACGATCCGCTCCCAA
AACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGC
TTGGATAAAATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACC
ATCCTGAAGTTACTGGAGGTAGAACATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGAT
CTGCAAGACAAAGAAGTTGGAGATGGAACTACTTCAGTGGTTATTATTGCAGCAGAACTC
CTAAAAAATGCAGATGAATTAGTCAAACAGAAAATTCATCCCACATCAGTTATTAGTGGC
TATCGACTTGCTTGCAAGGAAGCAGTGCGTTATATCAATGAAAACCTAATTGTTAACACA
GATGAACTGGGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATC
ATTGGAATAAATGGTGATTTCTTTGCTAACATGGTAGTAGATGCTGTACTTGCTATTAAA
TACACAGACATAAGAGGCCAGCCACGCTATCCAGTCAACTCTGTTAATATTTTGAAAGCC
CATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGTGTGGTG
GGATCCCAGGGCATGCCCAAGAGAATCGTAAATGCAAAAATTGCTTGCCTTGACTTCAGC
CTGCAAAAAACAAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCTGAAAAACTG
GACCAAATTAGACAGAGAGAATCAGATATCACCAAGGAGAGAATTCAGAAGATCCTGGCA
ACTGGTGCCAATGTTATTCTAACCACTGGTGGAATTGATGATATGTGTCTGAAGTATTTT
GTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTTAAAAAGGGACCTTAAACGCATTGCC
AAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAATTTGGAAGGTGAAGAAACTTTT
GAAGCTGCAATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAG
CTGATCTTAATCAAAAATACTAAGGCTCGTACGTCTGCATCGATTATCTTACGTGGGGCA
AATGATTTCATGTGTGATGAGATGGAGCGCTCTTTACATGATGCACTTTGTGTAGTGAAG
AGAGTTTTGGAGTCAAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCCCTTTCC
ATATACCTTGAAAACTATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAG
TTTGCAAGATCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCC
ACAGATCTGGTTGCAAAATTAAGAGCTTTTCATAATGAGGCCCAGGTTAACCCAGAACGT
AAAAATCTAAAATGGATTGGTCTTGATTTGAGCAATGGTAAACCTCGAGACAACAAACAA
GCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAAATTTGCAACAGAAGCT
GCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAAGTAAAGATGAT
AAACATGGAAGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGA

Clone variation with respect to NM_030752.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030752 unedited

ATACGACTCACTATAGGCGGCCCGCGAATTCGCACGAGGGGCAGCCGGGAAGCGGGTGGG
GTGGTGTGTTACCCAGTAGCTCCTGGGACATCGCTCGGGTACGCTCCACGCCGTCGCAGC
CACTGCTGTGGTCGCCGGTCGGCCGAGGGGCCGCGATACTGGTTGCCCGCGGTGTAAGCA
GAATTCGACGTGTATCGCTGCCGTCAAGATGGAGGGGCCTTTGTCCGTGTTCGGTGACCG
CAGCACTGGGGAAACGATCCGCTCCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATAT
TGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAAATGTTGGTGGATGATATTGGTGA
TGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAACATCCTGC
AGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACTAC
TTCAGTGGTTATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATTAGTCAAACAGAA
AATTCATCCCACATCAGTTATTAGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCGTTA
TATCAATGAAAACCTAATTGTTAACACAGATGAACTGGGAAGAGATTGCCTGATTAATGC
TGCTAAGACATCCATGTCTTCCAAATCATTGGATAAATGGTGATTTCTTTGCTAACATGT
AGTAGATGCTGTACTTGCTATTAAATACACAGACATTAGAGGCCAGCCACGCTATCCAGT
CAACTCTGTTAATATTNTGAAAGCCATGGGAGAGTCAAATGGAGAGTATGCTCATCAGTG
GCTATGCACTCAACTGTGTGGGTGGGATCCCAGGGNCATGCCAGNAGATCGTAATGCAAA
AATTGCTTGCCTTGACTTCAGCTGCAAAACAAAATGAAGCTGGNGTACAGTGGTCATTAC
GACCTGANACT

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_030752 unedited
GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACAGCTTGTACTTTACTTTA
ATGTGTAATACTCAACTCAAGGTACAAGACAATTGCATTTAACATTGTTATAAATAAAAG
GAACATCAGATCAATCATTAAGGGCTCCAGAGTGAACAGCATCTTCATAACTTCCATGTT
TATCATCTTTACTTTCTGGATGTAATTTAATAAGATCATCAATTCGAAGAATGGTGATTG
CAGCTTCTGTTGCAAATTTCAAACTCTTAACTTTAACTATGGTTGGTTCAAACACCCCTG
CTTGTTTGTTGTCTCGAGGTTTACCATTGCTCAAATCAAGACCAATCCATTTTAGATTTT
TACGTTCTGGGTTAACCTGGGCCTCATTATGAAAAGCTCTTAATTTTGCAACCAGATCTG
TGGAGTCCTGGGCAGCATTAACTGCTAGTGTATTGGGAATAACAAGAAGTGATCTTGCAA
ACTCTGCAATCGCAAGCTGTTCCCGAGACCCCATGCTGGTTGCATAGTTTTCAAGGTATA
TGGAAAGGGCTGCTTCTACAGCACCCCCACCGGGAACCACAGATTTTGACTCCAAAACTC
TCTTCACTACACAAAGTGCATCATGTAAAGAGCGCTCCATCTCATCACACATGAAATCAT
TTGCCCCACGTAAGATAATCGATGCAGACGTACGAGCCTTAGTATTTTTGATTAAGATCA
GCTCATCATCACAAATTCTCTCCTGTACCACTTCTTCTGCCTGTCCCACATTGCAGCTTC
AAAAAGTTCTTCACCTTCCAATTGGCCAGGTTGACAGATAGTTGCTCCAGAAGCTTTGGC
ATGCGTTTAAGGTCCTTTTTAAAACTCTTCTACTGCCATGCACCAGCCTCACAAATACTT
CAGAACATATCATCATTCACCATGGGTAAAATACATGGCACAGTGGCAGATCTCTGAATC
TCTCTGGGGAATCG
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Restriction Sites: NotI-NotI

ACCN: NM_030752

Insert Size: 1920 bp

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:
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_030752.2, NP_110379.2

RefSeq Size: 2463 bp

RefSeq ORF: 1671 bp

Locus ID: 6950

UniProt ID: P17987

Cytogenetics: 6q25.3

Domains: cpn60_TCP1

Gene Summary: The protein encoded by this gene is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. In addition, three pseudogenes that appear to be derived from this gene have been found. [provided by RefSeq, Jun 2010]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).