

Product datasheet for **SC319578**

TCP1 epsilon (CCT5) (NM_012073) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 epsilon (CCT5) (NM_012073) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCP1 epsilon
Synonyms:	CCT-epsilon; CCTE; HEL-S-69; PNAS-102; TCP-1-epsilon
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_012073.3
 GCCCTCCCAGAAAAGGAAGTGCATTCTCGCTTCCGTAGCGGTCTCCGCCGTTGGGGGA
 AAGTAATCCGGCTGTTGCACCATGGCGTCCATGGGGACCCTCGCCTTCGATGAATATGG
 GCGCCCTTTCCTCATCATCAAGGATCAGGACCGCAAGTCCCGTCTTATGGGACTTGAGGC
 CCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACTTGG
 ACCAAATGGGCTTGATAAGATGATGGTGGATAAAGGATGGGGATGTGACTGTAACATGA
 TGGGCCCACCATCTTAAGCATGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGG
 ACTGTCCAAGTCTCAGGATGATGAAATTGGAGATGGAACACAGGAGTGGTTGTCCTGGC
 TGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGGCATTACCCAATCAGAAT
 AGCCGATGGCTATGAGCAGGCTGCTCGCTTGCTATTGAACACCTGGACAAGATCAGCGA
 TAGCGTCTTGTTGACATAAAGGACACCGAACCCCTGATTAGACAGCAAAAACCACGCT
 GGGCTCCAAAGTGGTCAACAGTTGTCACCGACAGATGGCTGAGATTGCTGTGAATGCCGT
 CCTCACTGTAGCAGATATGGAGCGGAGAGACGTTGACTTTGAGCTTATCAAAGTAGAAGG
 CAAAGTGGGCGGAGGCTGGAGGACACTAACTGATTAAGGGCGTATTGTGGACAAGGA
 TTTCAAGTCAACAGATGCCAAAAAAGTGAAGATGCCAAGATTGCAATTCTCACATG
 TCATTGAAACCCCAACCAAAAAACAAGCATAAGCTGGATGTGACCTCTGTGCAAGA
 TTATAAGCCCTTCAGAAATACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTA
 AGAGACTGGTGTAACTAGCAATTTGTGAGTGGGGCTTTGATGATGAAGCAATCACTT
 ACTTCTTCAGAACAACTTGCCTGCGGTTCCGCTGGGTAGGAGGACCTGAAATTGAGCTGAT
 TGCCATCGCAACAGGAGGGCGGATCGTCCCAGGTTCTCAGAGCTCACAGCCGAGAAGCT
 GGGCTTTGCTGGTCTTGTACAGGAGATCTATTTGGGACAACAAAGGATAAAATGCTGGT
 CATCGAGCAGTGAAGAACTCCAGAGCTGAACCATTTTTATTAGAGGAGGAAATAAGAT
 GATCATTGAGGAGGCGAAACGATCCCTTCACGATGCTTTGTGTGCATCCGGAACCTCAT
 CCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGATATCCTGTGCCCTGGCAGT
 TAGCCAAGAGGGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGA
 CGCACTGGAGGTATCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGAC
 TATGACCGAAGTCCGAGCCAGACAGGTGAAGGAGATGAACCTGCTCTTGGCATCGACTG
 TTTGCACAAGGGGACAAATGATATGAAGCAACAGCATGTCATAGAAACCTTGATTGGCAA
 AAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGATTTTGAAGATTGATGACAT
 TCGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAATATGTAGCAAGATCCAC
 TTCTGTGATTAAGTAAATGGATGTCTCGTATGCGTCTACAGTTATTTATTGTTACATCC
 TTTTCCAGACACTGTAGATGCTATAATAAAAATAGCTGTTTGGTAACCATAGTTTCACTT
 GTTCAAAGCTGTGTAATCGTGGGGTACTATCTCAACTGCTTTTGTATTTCATTGTATTA
 AAGAATCTGTTTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_012073

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).

OTI Annotation: 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.

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_012073.3](#), [NP_036205.1](#)

RefSeq Size: 3403 bp

RefSeq ORF: 1626 bp

Locus ID: 22948

UniProt ID: [P48643](#)

Cytogenetics: 5p15.2

Domains: cpn60_TCP1

Protein Families: Druggable Genome

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. Mutations in this gene cause hereditary sensory and autonomic neuropathy with spastic paraplegia (HSNSP). Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 5 and 13. [provided by RefSeq, Apr 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).