

## Product datasheet for **RC222979**

### CTC1 (NM\_025099) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTC1 (NM_025099) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTC1
Synonyms:	AAF-132; AAF132; C17orf68; CRMCC; tmp494178
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222979 representing NM_025099 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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CAGGACCTCAAGACTCACCAGCGTCTCCATGTGCAGCCACCTGTCGTGGAGCAGTAGTCATACCAGG  
CCTGGGCCAAGAGGCTGGACCAATGGGAACCCCTGCCCGAGAGCAGCTGTTACTTTTAGGGACT  
AACAGACCTATCGGCAGACTTGAACAAGAGTGCAGGAACGGAAGCCTCTATGTGAGAGATAACTGGC  
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**Protein Sequence:** >RC222979 representing NM\_025099  
Red=Cloning site Green=Tags(s)

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CLLR LRNKL RGVQRNL AGSL VRL SAL VKSKQKAYFILSLGRSHPAVTHVSIIVQVPAQLVWHRALRPGTA
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RQ GKCTRL GSTCPTQT AISQAIIRLLVEDGTAEAVVTCRNHHVAAALGLCPREWASLLDFVQVPGRVVLQ
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NPRLRLSCLSI RESEYSSSLGILASSC
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8101\\_b09.zip](https://cdn.origene.com/chromatograms/mk8101_b09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

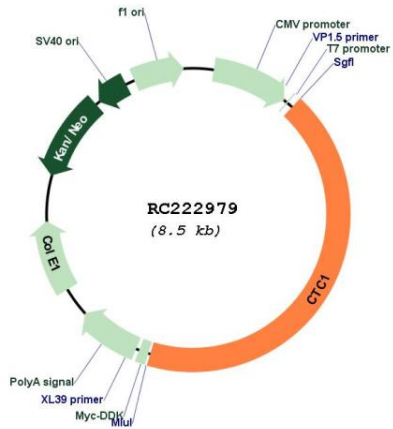


**ACCN:** NM\_025099

**ORF Size:** 3651 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_025099.6</a>
<b>RefSeq Size:</b>	7089 bp
<b>RefSeq ORF:</b>	3654 bp
<b>Locus ID:</b>	80169
<b>UniProt ID:</b>	<a href="#">Q2NKJ3</a>
<b>Cytogenetics:</b>	17p13.1
<b>MW:</b>	134.6 kDa
<b>Gene Summary:</b>	This gene encodes a component of the CST complex. This complex plays an essential role in protecting telomeres from degradation. This protein also forms a heterodimer with the CST complex subunit STN1 to form the enzyme alpha accessory factor. This enzyme regulates DNA replication. Mutations in this gene are the cause of cerebroretinal microangiopathy with calcifications and cysts. Alternate splicing results in both coding and non-coding variants. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RC222979