

## Product datasheet for RC204997

### C9orf78 (NM\_016520) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C9orf78 (NM_016520) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C9orf78
Synonyms:	bA409K20.3; CSU2; HCA59; HSPC220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204997 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCGGTCGTCCGGAAGATTTCCGTCGCCGCCGGGTGACTCGGAGTCAGAGGAAGATGAGCAGGACT  
CAGAGGAGGTTTCGATTAAGAACTGGAAGAGACCAGAGAGGTACAGAACTTGAGGAAGAGGCCAACCGGGT  
GAGTGCTGTGGCCTTGTGGTGGGAGAGAAGGTACAAGAGGAGACCCTCTAGTGGATGATCCCTTTCAG  
ATGAAGACAGGTGGTATGGTGGATGAAGAACTGAAGGAAAGGGCAAAGATAAGATCAGTGAGGAGG  
AGGACCTGCACCTGGGGACATCGTTTTCTGCAGAAACCAACCGAAGGGATGAGGATGCAGACATGATGAA  
GTACATTGAGACAGAGCTAAAGAAGAGGAAAGGGATCGTGGAACATGAGGAACAGAAAGTTAAGTCAAAG  
AATGCAGAGGACTGTCTTTATGAACTTCCAGAAAACATCCGTGTTTTCTCAGCAAAGAAGACCGAGGAGA  
TGCTTTCCAACCAGATGCTGAGTGGCATTCTGAGGTGGACCTGGGCATCGATGCTAAAAATAAAAAATAT  
CATTTCCACGGAGGATGCCAAGGCCCGTCTGCTGGCAGAGCAGCAGAGCAAGAAGAAAGACAGCGGAGACC  
TCCTTCGTGCCTACCAACATGGCTGTGAATTATGTGCAGCACAACAGATTTATCATGAGGAGCTCAACG  
CGCCATACGGAGAAACAAGAAGAGCCCAAGGCCCGCCCTTGAGAGTAGGTGACACGGAGAAGCCAGA  
GCCTGAGCGGTCCCCTCCTAACCGCAAGCGTCTGCTAACGAGAAGGCAACTGATGACTATCATTATGAG  
AAGTTCAAGAAAATGAATAGGCGGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204997 protein sequence  
Red=Cloning site Green=Tags(s)

MPVVRKIFRRRRGDSESEDEQDSEEVRLKLEETREVQNLKRPNVSAVALLVGEKVQEETTLVDDPFQ  
 MKTGGMVDMMKCLKERKDKISEEDLHLGTSFSAETNRRDEDADMKYIETELKKRKGIVEHEEQVKVSK  
 NAEDCLYELPENIRVSSAKKTEMLSNQMLSGIPEVDLGIDAKIKNIISTEDAKARLLAEQQSKKKDSET  
 SFVPTNMAVNYVQHNRFYHEELNAPIRRNKEEPKARPLRVGDTEKPEPERSPPNRKRPANEKATDDYHYE  
 KFKKMNRRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6580\\_h04.zip](https://cdn.origene.com/chromatograms/mk6580_h04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016520

**ORF Size:** 867 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\\_016520.3](#)

**RefSeq Size:** 1835 bp

**RefSeq ORF:** 870 bp

**Locus ID:** 51759

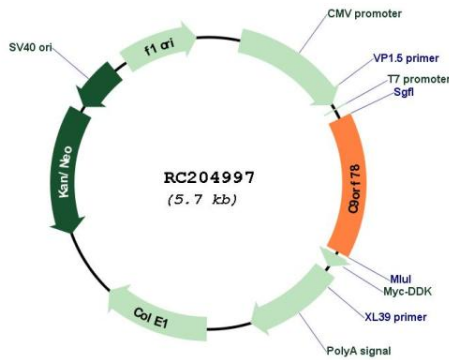
**UniProt ID:** [Q9NZ63](#)

**Cytogenetics:** 9q34.11

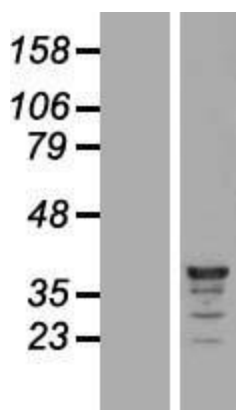
**MW:** 33.7 kDa

**Gene Summary:** Involved in the regulation of telomeric heterochromatin assembly and control of telomere length.[UniProtKB/Swiss-Prot Function]

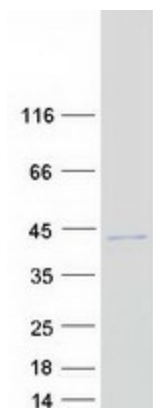
**Product images:**



Circular map for RC204997



Western blot validation of overexpression lysate (Cat# [LY413954]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204997 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified C9orf78 protein (Cat# [TP304997]). The protein was produced from HEK293T cells transfected with C9orf78 cDNA clone (Cat# RC204997) using MegaTran 2.0 (Cat# [TT210002]).