

## Product datasheet for **RC216309**

### **C13orf7 (RNF219) (NM\_024546) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C13orf7 (RNF219) (NM_024546) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C13orf7
Synonyms:	C13orf7; RNF219
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC216309 representing NM\_024546  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCTCAGACCGTGCAGAATGTTACATTGTGCGTCACTCTGCCATCACGTGCCACATTTGCTTGGGGA  
AGGTACGTCAGCCTGTCAATGCATCAACAACCATGTATTTTGTTCGATTTGTATTGATTGTGGTTGAA  
GAATAATAGCCAGTGTCCAGCTTGCAGAGTCCCCATCACTCCTGAAAATCCTTGCAAAGAAATTATAGGA  
GGAACAAGTAAAAGTGAACCTATGCTAAGCCATACGGTCAGGAAGCATCTTCGAAAACTAGACTTGAAT  
TACTACACAAAGAATATGAGGACGAAATAGATTGTTTACAGAAAGAAGTAGAAGAGCTTAAGAGTAAAAA  
TCTCAGCTTGGAGTCACAGATCAAACTATTCTGGATCCTTTAACCTTGGTGCAGGGCAACCAAAATGAA  
GACAAACATCTAGTCACAGATAATCCAAGTAAATTAACCCAGAACTGTAGCAGAGTGGAAAGAAAAAC  
TCAGAACAGCTAATGAAATCTATGAAAAAGTAAAAGATGATGTGGATAAGCTAAAGGAGGCAAAATAAAA  
ATTGAAATTTGAAAAATGGTGGTCTGGTGGAGGAGAATTTACGACTGAAGGCTGAAGTTGATAACAGATCA  
CCTCAAAAGTTTGGAAAGTTTGCAGTTGCTGCTCTTCAGTCCAAAGTAGAACAGTATGAGCGTGAACCA  
ATCGCCTCAAGAAAGCCCTGGAACGAAGTGATAAGTATATAGAGGAACTAGAATCTCAAGTTGCACAGCT  
AAAAAATCAAGTGAAGAGAAAGAAGCTATGAATTCATTTGCCAGACAGCACTTTCTGCAGATGGCAAA  
GGGAGCAAAGGCAGTGGAGAGGATGTGGTGTCAAAGAATCAAGGCGATAGTGCAGAAAGCAGCCTGGCT  
CATCCACCTCCAGTCTTCTCACCTAGCGAAGCCTTCCAGCAGCAGACTGTGTGACACCAGTTCTGCAAG  
GCAGGAAAGTACCAGCAAAGCAGACCTTAAGTGTCTAAGAACAAGACCTATATCAAGAACAGGTAGAA  
GTAATGTTAGATGTGACAGATACAAGTATGGATACTTATTTGAAAGAGAATGGGGAAATAAACCAGTG  
ACTGTGTACCCTACAAGATGAAGAATTTATGATCTTCCAGCTCCTTTGACTCCTTTGCTCCCTTAGTTG  
CCTTCAGCTCAGTACTCCAGAAAATAGAGAGAGCTCTGTGGTCCAAGCAGGAGGTTCCAAAAAGCACTCA  
AACCATCTCAGAAAATTTGGTGTGTTGATGATTTTTGTGATTCTTCAAATGTTTCTAATAAAGATTCTTCAG  
AAGATGATATAAGTAGAAGTAAAATGAAAAGAAATCAGAATGTTTTTCTCCCCAAAGACAGGATTTTG  
GGACTGTTGTTCCACAAGCTATGCCAAAACCTTAGATTTTGAAGTTCAGAGGGGAACACGATAGCAAAT  
TCTGTTGGAGAAATATCTTCAAATTTGAGTGAAGAAATCAGGCTTATGTTTATCCAAAAGGTTGAATTCTA  
TTCGCTCTTTTGAATGAACCGGACAAGAACATCCAGTGAAGCATCGATGGATGCTGCTTACCTTGACAA  
AATCTCTGAGTTGGATTCAATGATGTGAGAGTCAGACAACAGCAAGAGCCCTTGAATAACGTTTTTAAG  
TCACTGGATTTGGATGGTTATCAAAGTCACTCAAGGCAGTGAATTTCTTGAGGAACCTGATAAGTTGG  
AAGAAAAAAGTGAAGTAAACCTTTCCAAAGGTTCTCTAACTAATGATCAGTTAGAAAATGGAAGTGAATG  
GAAACCCACTTCTTTTTTCTCCTCTCTCCATCTGACCAAGAAATGAATGAAGATTTTTCTACTCCATTCC  
AGTTCTTGTCCAGTAACTAATGAAATCAAACCCCAAGCTGCTTGTTCAGACAGAGTTTTCCCAGGGCA  
TTTTGTTAAGCAGTTCACATCGACTATTTGAAGATCAAAGATTTGGGTCACTTTGTTTAAAGATGTCCTC  
AGAGATGCACAGTCTTCATAACCCACCTTCAGTCTCCTTGGTCTACTTCTTTGTGCCTGAAAAGAGGAAT  
AAAAATGTGAATCAATCAACAAAAAGAAAAATCCAGAGCAGCCTTCCAGTGCAGCCCATCAAAGCAA  
CTAAAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RC216309 representing NM\_024546  
Red=Cloning site Green=Tags(s)

MAQTVQNVTLSTLPITCHICLGKVRQPVICINNHVFCISICIDLWLNNSQCPACRVPTIPENPCKEIIIG  
 GTSESEPMLSHTVRKHLRKRLELLHKEYEDEIDCLQKEVEELKSKNLSLESQIKTILDPLTLVQGNQNE  
 DKHLVTDNPSKINPETVAEWKKLRTANEIYEKVKDDVDKLEANKKLENGGLVRENLRKAEVDNRS  
 PQKFRGFAVAALQSKVEQYERETNRLKKALERSDKYIEELESQVAQLKNSSEEKEAMNSICQTALSADGK  
 GSKGSEEDVVSKNQGDARKQPGSSTSSSHLAKPSSSRLCDTSSARQESTSKADLNC SKNKDLYEQVE  
 VMLDVTDTSMPTYLEREWGNKPSDCVPYKDEELYDLPAPCTPLSLSCLQLSTPENRESSVQAGGSKKHS  
 NHLRKLVFDDFCSSNVSNKDSSEDDISRSENEKKSECFSSPKTGFWDCCSTSYAQNLD FESSEGNTIAN  
 SVGEISSKLSEKGLCLSKRLNSIRSFEMNRTTSSEASMDAAYLDKISELDSMMSESDNSKSPCNGFK  
 SLDL DGLSKSSQGFLEEPDKLEEKTELNL SKGSLTNDQLENGSEWKPTSFLLSPSDQEMNEDFSLHS  
 SSCPV TNEIKPPSCLFQTEFSQILLSSSHRLFEDQRF GSSLFKMSSEMHS LHNHLQSPWSTSFVPEKRN  
 KNVNQSTKRKIQSSLSSASPSKATKS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8115\\_e06.zip](https://cdn.origene.com/chromatograms/mk8115_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024546

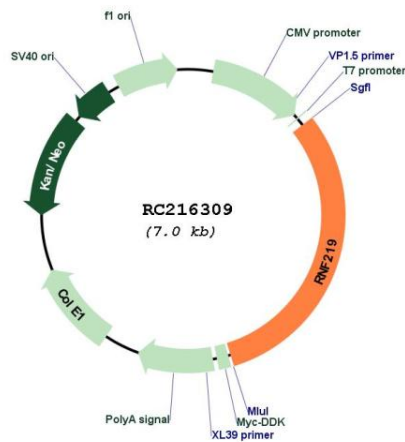
**ORF Size:** 2178 bp

**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\\_024546.4](#)
- RefSeq Size:** 3552 bp
- RefSeq ORF:** 2181 bp
- Locus ID:** 79596
- UniProt ID:** [Q5W0B1](#)
- Cytogenetics:** 13q31.1
- MW:** 80.9 kDa
- Gene Summary:** E3 ubiquitin ligase essential for DNA replication origin activation during S phase (PubMed:31160578). Acts as a replication origin selector which selects the origins to be fired and catalyzes the multi-mono-ubiquitination of a subset of chromatin-bound ORC3 and ORC5 during S-phase (PubMed:31160578).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC216309