

## Product datasheet for RC216768

### COMMD5 (NM\_001081003) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COMMD5 (NM_001081003) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COMMD5
Synonyms:	HCARG; HT002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216768 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCTGTGGGGCTGCAACTCCATACCTGCATCATCCTGGTGATAGTCACAGTGGCCGAGTGAGTT  
TCTTGGGGGCCAGCTTCTCCAGAGGTGGCAGCAATGGCCGGCTACTAGGGGACCTAGACAGGAGCAC  
GTTCAGAAAGTTGCTGAAGTTTGTGGTCAGCAGCCTGCAGGGGAGGACTGCCGAGAGGCTGTGCAGCGT  
CTTGGGGTCAGCGCAACCTGCCGGAGGAGCAGCTGGGTGCCCTGCTGGCAGGCATGCACACTGCTCC  
AGCAGGCCCTCCGTCTGCCCCACCAGCCTGAAGCCTGACACCTTCAGGGACCAGCTCCAGGAGCTCTG  
CATCCCCAAGACCTGGTCGGGGACTTGCCAGCGTGGTATTTGGGAGCCAGCGGCCCTCTTGATTCT  
GTGGCCAGCAGCAGGGGCTGGCTGCCGCATGTTGCTGACTTTCGGTGGCGGGTGGATGTAGCAATCT  
CCACCAGTGCCCTGGCTCGCTCCCTGCAGCCGAGCGTCTGATGCAGCTGAAGCTTTCAGATGGGTGAGC  
ATACCGCTTTGAGGTCCCACAGCCAAGTTCAGGAGCTGCGGTACAGCGTGGCCCTGGTCTAAAGGAG  
ATGGCAGATCTGGAGAAGAGGTGTGAGCGCAGACTGCAGGAC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC216768 protein sequence  
Red=Cloning site Green=Tags(s)

MSAVGAATPYLHHPGDSHSGRVSFLGAQLPPEVAAMARLLGDLDRSTFRKLLKFVSSSLQGEDCREAVQR  
 LGVSANLPEEQLGALLAGMHTLLQQALRLPPTSLKPDTRDQLQELCIPQDLVGDLASVVFSGSRPLDLS  
 VAQQQGAWLPHVADFRWRVDVAISTSALARSLQPSVLMQLKLSGDSAYRFEVPTAKFQELRYSVALVLKE  
 MADLEKRCERRLQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6390\\_a01.zip](https://cdn.origene.com/chromatograms/mk6390_a01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001081003

**ORF Size:** 672 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\\_001081003.3](#)

**RefSeq Size:** 1453 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 28991

**UniProt ID:** [Q9GZQ3](#)

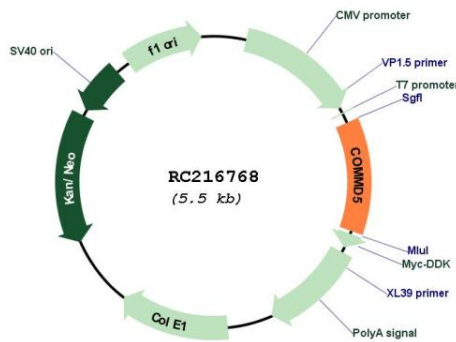
**Cytogenetics:** 8q24.3

**Protein Families:** Druggable Genome

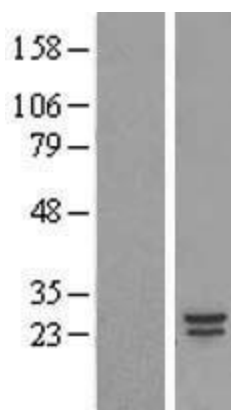
**MW:** 24.7 kDa

**Gene Summary:** May modulate activity of cullin-RING E3 ubiquitin ligase (CRL) complexes (PubMed:21778237). Negatively regulates cell proliferation. Negatively regulates cell cycle G2/M phase transition probably by transactivating p21/CDKN1A through the p53/TP53-independent signaling pathway. Involved in kidney proximal tubule morphogenesis (By similarity). Down-regulates activation of NF-kappa-B (PubMed:15799966).[UniProtKB/Swiss-Prot Function]

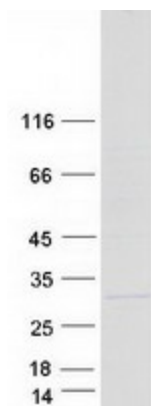
### Product images:



Circular map for RC216768



Western blot validation of overexpression lysate (Cat# [LY421149]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216768 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COMMD5 protein (Cat# [TP316768]). The protein was produced from HEK293T cells transfected with COMMD5 cDNA clone (Cat# RC216768) using MegaTran 2.0 (Cat# [TT210002]).