

## Product datasheet for MR202621

### Commd5 (NM\_025536) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Commd5 (NM_025536) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Commd5
Synonyms:	2310065H03Rik; AI854466; D15Ertd81e; Hcarg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202621 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCGTTGGGGCTCCGGCTCCATACTTACACCATCCAACGACAGTCACAGCGGCCGGTTCAGTT  
TCCTGGGTTCCCAGCCCTCTGCAGAAAGTACGGCAGTGGCTCAGCTCTTGAAGGACTTAGACAGAAGCAC  
CTTCAGAAAGTTGTTGAAACTCGTAGTCGGGGCCCTCCATGGGAAAGACTGCAGAGAGGCCGTGCAGCAC  
CTTGGTGCCAGCGCAACCTGTAGAGGAGCGTCTGGCCGTCCTGCTGGCGGGCACACACCCCTGCTCC  
AGCAGGCTCTCCGGCTGCCCCCTGCCAGTCTGAAACCAGATGCCCTCCAGGACGAACTCCAGGAACTTGG  
CATTCCCAAGATATGATTGGAGATCTGGCCAGTTGGCATTGGGAGTCAACGCCCTCTTCTCGACTCT  
GTAGCCAGCAGCAGGGATCCTCGCTGCCTCGTGTGCAAATTTCCGGTGGCGGGTGGATGTGGCCATCT  
CAACCAGTGCTCAGTCCCGCTCCCTGCAACCGAGTGTCTCATGCAGCTGAAGCTCACAGATGGATCGGC  
ACACCGCTTCGAGGTGCCATAGCCAAATTCAGGAGCTGCGCTACAGCGTGGCGTTGGTCTTAAGGAG  
ATGGCAGAGCTGGAGAGGAAGTGTGAGCGCAAACCTGCAGGAC

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202621 protein sequence  
Red=Cloning site Green=Tags(s)

MSALGAPAPYLHHPTDSHSGRVSFLGSQPSAEVTAVALLLKDLDRSTFRKLLKLVVGGALHGKDCREAVQH  
 LGASANLSEERLAVLLAGTHTLLQQALRLPPASLKPDAFQDELQELGIPQDMIGDLASLAFGSQRPLDLS  
 VAQQQSSSLPRVSNFRWRVDVAISTSAQSRSLQPSVLMQLKLTGSAHRFEVPIAKFQELRYSVALVLKE  
 MAELERK CERKLQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_025536

**ORF Size:** 675 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\\_025536.1](#), [NM\\_025536.2](#), [NP\\_079812.1](#)

**RefSeq Size:** 998 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 66398

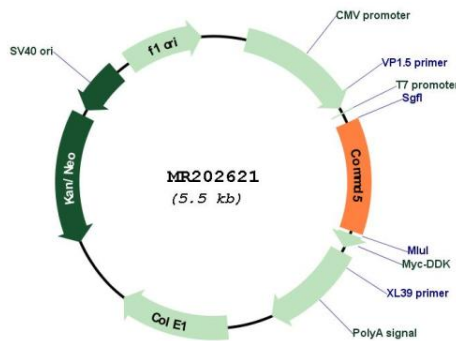
**UniProt ID:** [Q8R395](#)

**Cytogenetics:** 15 36.28 cM

**MW:** 24.5 kDa

**Gene Summary:** May modulate activity of cullin-RING E3 ubiquitin ligase (CRL) complexes. 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. Down-regulates activation of NF-kappa-B. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202621