

## Product datasheet for **MR225483**

### Kctd12 (NM\_177715) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kctd12 (NM\_177715) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Kctd12  
**Synonyms:** AU046135; AW538430; Pfet1; Pfetin  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225483 representing NM\_177715  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTCTGGCGGACAGCACCCGAGGATTACCAACGGGGCGGAGGCGGAGGTGGCAGCGGCTCGTCGT  
 CGTCCTCGGCGGAGCCGCGCTTCCCGGACATCGTAGAGCTGAACGTGGGAGGGCAGGTGTATGTGAC  
 CCGGCGCTGCACCGTGGTGTCCGTGCCGACTCGCTGCTCTGGCGTATGTTACGCAGCAGCAGCCGAG  
 GAGCTGGCCCGGACAGCAAAGGCCGCTCTTTCTGGACCGGGACGGCTTCCTCTCCGCTACATCTGG  
 ATTACCTGCGGGACTTGCAGCTCGTGTGCTGCCGACTACTTCCCGAGCGCAGCCGGCTGCAGCGGAGGC  
 CGAGTACTTCGAGCTGCCGGAGCTCGTGCCTCGCCTCGGGGCGCCCAGCAACCCGGTCCGGGGCCACCG  
 CCGCCGACTCGCGCCGCGGGGTGCACAAGGAGGGCTCTCTGGCGATGAGCTGTGCGCGTGGGCTACG  
 CAGAGCCCAGCCGAGGAGGGCGCCTCGGCCGGGGCGCCTTCGCCACGCTGGAGCTGGTAGCCGAG  
 CCCGTCCGGGGCGCGCGGGGGCCCTGCTCACGCCGTCCCAGTCTTTGGACGGCAGCCGGCGCTCCGGC  
 TACATACCATCGGCTACCGCGCTCCTACCCATCGGGCGCGACGCTCAGGCGGACGCCAAGTTCCGGC  
 GGGTGGCGCGCATCACCGTGTGCGGCAAGACGTCGCTGGCCAAGGAGGTGTTGGGGACACCCTGAATGA  
 GAGCCGGGACCCGACCGGCCCGGAGCGCTACACCTCCCGCTATTACCTCAAGTTCAACTTCTAGAG  
 CAGGCCCTCGATAAGCTGTCCGAGTCGGGCTTCCACATGGTGGCGTGCAGCTCCACGGGACCTGCCGTT  
 TTGCTAGCAGCACCGACCAGAGCGAGGACAAGATCTGGACCAGCTACACCGAGTACGTTCTGCAGGGA  
 G

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225483 representing NM\_177715  
Red=Cloning site Green=Tags(s)

MALADSTRGLPNGGGGGGGSGSSSSSAEPPLFPDVELNVGGQVYVTRRCTVVSVPDSSLWRMFTQQQPQ  
 ELARDSKGRFFLDRDGLFRYILDYLRDLQLVLPDYFPERSRLQREAEYFELPELVRRLGAPQPGPGPP  
 PPHSRRGVHKEGSLGDELLPLGYAEPEPQEGASAGAPSPTELASRSPSGGAAGPLLTPSQSLDGSRRSG  
 YITIGYRGSYTIGRDAQADAKFRRVARIIVCGKTS LAKEVFGDTLNE SRDPDRPPERYTSRYYLKFNFL E  
 QAFDKLSESGFHMVACSSTGTCAFASSTDQSEDKIWTSYTEYVFCRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9046\\_g05.zip](https://cdn.origene.com/chromatograms/mm9046_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_177715

**ORF Size:** 981 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\\_177715.4](#), [NP\\_808383.3](#)

**RefSeq Size:** 6076 bp

**RefSeq ORF:** 984 bp

**Locus ID:** 239217

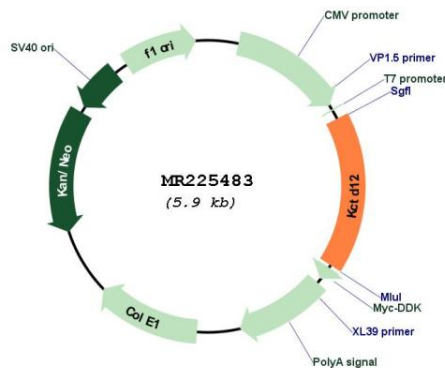
**UniProt ID:** [Q6WVG3](#)

**Cytogenetics:** 14 E2.3

**MW:** 36.3 kDa

**Gene Summary:** Auxiliary subunit of GABA-B receptors that determine the pharmacology and kinetics of the receptor response. Increases agonist potency and markedly alter the G-protein signaling of the receptors by accelerating onset and promoting desensitization.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225483