

Product datasheet for **RC204577**

KCTD12 (NM_138444) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCTD12 (NM_138444) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KCTD12
Synonyms: C13orf2; PFET1; PFETIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204577 representing NM_138444
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCTGGCGGACAGCACACGTGGATTACCAACGGGGGCGCGGGGGGGCGGCAGTGGCTCCTCGT
CGTCTCCGCGGAGCCACCGCTTCCCGGACATCGTGGAGCTGAACGTGGGGGGCCAGGTGTACGTGAC
CCGGCGCTGCACGGTGGTGTCCGGTCCCGACTCGCTGCTCTGGCGCATGTTACGCAGCAGCAGCCGAG
GAGCTGGCCCGGACAGCAAAGGCCGCTCTTTCTGGACCGGGACGGCTTCTCTCCGCTACATCTGG
ATTACCTGCGGGACTTGCAGCTCGTGTGCCCCACTACTTCCCGAGCGCAGCCGGCTGCAGCGGAGGC
CGAGTACTTCGAGCTGCCAGAGCTCGTGCGCCGCTCGGGGCGCCCAGCAGCCCGCCGGGGCCGCCG
CCCTCGCGGGCGCGGGGTGCACAAGGAGGGCTCGCTGGGTGACGAGCTGCTGCCGCTTGGCTACTCGGAGC
CCGAACAGCAGGAGGGCGCCTCTGCCGGGGCGCGTCCGCCACGCTGGAGCTGGCTAGCCGAGTCCGTC
CGGGGGCGCGGGGGCCCGCTGCTCACGCCGTCCCAGTCGCTGGACGGCAGCCGGCGCTCGGGCTACATC
ACCATCGGCTACCGCGGCTCCTACACCATCGGGCGGGACGCGCAGGCGGACGCCAAGTCCGGCGAGTGG
CGCGCATACCGTTTTCGGAAGACGTCGCTGGCAAGGAGGTGTTTGGGACACCCTGAACGAAAGCCG
GGACCCCGACCGTCCCCCGGAGCGCTACACCTCGCGCTATTACCTCAAGTTCAACTTCTGGAGCAGGCC
TTCGACAAGCTGTCCGAGTCGGGCTTCCACATGGTGGCGTGCAGTCCACGGGCACCTGCCCTTTGCCA
GCAGCACCGACCAGAGCGAGGACAAGATCTGGACCAGCTACACCGAGTACGTCTTCTGCAGGGAG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204577 representing NM_138444
Red=Cloning site Green=Tags(s)

MALADSTRGLPNGGGGGGGSSSSSAEPPLFPDIVELNVGGQVYVTRRCTVVSVPDSSLWRMFTQQQPQ
 ELARDSKGRFFLDRDGLFRYILDYLRDLQLVLPDYFPERSRLQREAYFELPELVRRLGAPQPGPGPP
 PSRRGVHKEGSLGDELLPLGYSEPEQQEGASAGAPSPTLELASRSPSGGAAGPLLTPSQSLDGSRRSGYI
 TIGYRGSYTIGRDAQADAKFRRVARITVCGKTSLAKEVFGDTL NESRDPDRPPERVYTSRYYLKFNFLQA
 FDKLSESGFHMVACSSTGTCAFASSTDQSEDKIWTSYTEYVFCRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_138444

ORF Size: 975 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_138444.4](#)

RefSeq Size: 6255 bp

RefSeq ORF: 978 bp

Locus ID: 115207

UniProt ID: [Q96CX2](#)

Cytogenetics: 13q22.3

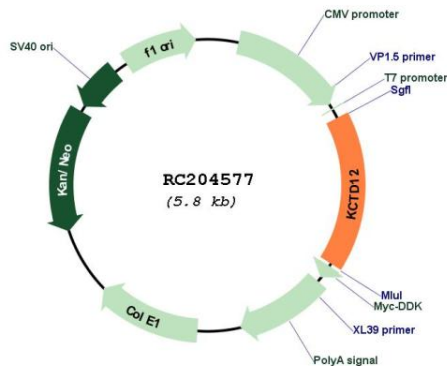
Domains: BTB, K_tetra

Protein Families: Ion Channels: Other

MW: 36.2 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 (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204577