

Product datasheet for **RG204577**

KCTD12 (NM_138444) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCTD12 (NM_138444) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCTD12
Synonyms: C13orf2; PFET1; PFETIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204577 representing NM_138444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCTGGCGGACAGCACACGTGGATTACCAACGGGGCGGGCGGGGGCGGCAGTGGCTCCTCGT
 CGTCTCCGCGGAGCCACCGCTTCCCGACATCGTGGAGCTGAACGTGGGGGGCCAGGTGTACGTGAC
 CCGGCGCTGCACGGTGGTGTCCGGTCCCGACTCGCTGCTTGGCGCATGTTACGCAGCAGCAGCCGAG
 GAGCTGGCCCGGACAGCAAAGGCCGCTCTTTTCTGGACCGGGACGGCTTCTCTCCGCTACATCTGG
 ATTACCTGCGGGACTTGCAGCTCGTGTGCCCCACTACTTCCCGAGCGCAGCCGGCTGCAGCGGAGGC
 CGAGTACTTCGAGCTGCCAGAGCTCGTGCGCCGCTCGGGGCGCCCAGCAGCCCGCCGGGGCCGCCG
 CCCTCGCGGGCGCGGGGTGCACAAGGAGGGCTCGCTGGGTGACGAGCTGCTGCCGCTTGGCTACTCGGAGC
 CCGAACAGCAGGAGGGCGCCTCTGCCGGGGCGCGTCCGCCACGCTGGAGCTGGCTAGCCGAGTCCGTC
 CGGGGGCGCGGGGGCCCGCTGCTCACGCCGTCCAGTCGCTGGACGGCAGCCGGCGCTCGGGCTACATC
 ACCATCGGCTACCGCGGCTCCTACACCATCGGGCGGGACGCGCAGGCGGACGCCAAGTCCGGCGAGTGG
 CGCGCATACCGTTTTCGGAAGACGTCGCTGGCCAAGGAGGTGTTTGGGACACCCTGAACGAAAGCCG
 GGACCCGACCGTCCCCCGGAGCGCTACACCTCGCGCTATTACCTCAAGTTCAACTTCTTGAGCAGGCC
 TTCGACAAGCTGTCCGAGTCGGGCTTCCACATGGTGGCGTGCAGCTCCACGGGCACCTGCCCTTTGCCA
 GCAGCACCGACCAGAGCGAGGACAAGATCTGGACCAGCTACACCGAGTACGTCTTCTGCAGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204577 representing NM_138444
 Red=Cloning site Green=Tags(s)

MALADSTRGLPNGGGGGGSGSSSSSAEPPLFPDIVELNVGGQVYVTRRCTVVSVPDSSLWRMFTQQQPQ
 ELARDSKGRFFLDRDGLFRYILDYLRDLQLVLPDYFPERSRLQREAEYFELPELVRRLGAPQQPGPGPP
 PSRRGVHKEGSLGDELLPLGYSEPEQQEGASAGAPSPTLELASRSPSGGAAGPLLTPSQSLDGSRRSGYI
 TIGYRGSYTIGRDAQADAKFRRVARITVCGKTS LAKEVFGDTL NESRDPDRPPERVYTSRYLKFNFLEQA
 FDKLSESGFHMVACSSTGTCAFASSTDQSEDKIWTSYTEYVFCRE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

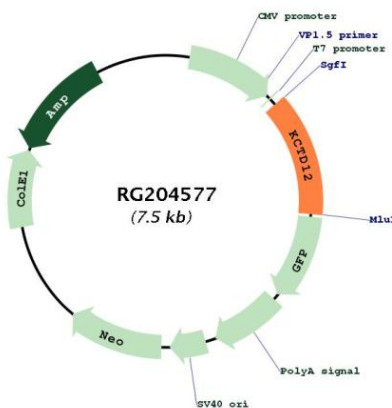
Cytogenetics: 13q22.3

Domains: BTB, K_tetra

Protein Families: Ion Channels: Other

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 RG204577