

Product datasheet for **RR208526**

Kctd5 (NM_001105768) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kctd5 (NM_001105768) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kctd5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR208526 representing NM_001105768
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGAATCACTGCGAGCTGCTACCGCCGGCTCCGAGCGGCCTCGGGCGGGGCTGGGGGGCGGCC
TGTGCCGCCGCTGCAGCGCTGGGATCGGCGCCCTGGCTCAGCGCCCCAGTGCGTGTCCAAGTGGGTCCG
TCTCAACGTCGGCGGCACCTACTTCTCACCACCCGGCAGACGCTGTGCCGGGACCCGAAGTCTTTCCTG
TACCGTTGTGCCAGGCGGACCCCGACCTAGATTCGGACAAGGATGAAACGGGCGCCTACTTAATCGACA
GAGACCCACCTACTTTGGGCCGTGCTGAACCTACCTGAGACACGGGAAGTTGGTTATTAACAGAGACCT
CGCAGAGGAAGGAGTGTGGAGGAAGCAGAATTTTACAATATCACCTCACTAATAAACTTGTAAAGGAC
AAAATTAGAGAACGAGACAGCAAAACATCCAGATGCCAGTGAAGCACGTGTACCGTGTGCTGCAGTGCC
AGGAGGAGGAGCTCACACAGATGGTGTCCACCATGTCAGACGGCTGGAAGTTTGAGCAGCTGGTCAGCAT
TGGCTCTCTTACAACATGAAATGAAGATCAGGCTGAGTTCCTCTGCGTGGTTTCCAAGGAGCTGCAC
AACACCCCGTATGGCACAACCAAGTGAACCAAGTGAAGCAAGATTTTGAAGAACGGGGCTCAAGGA
TG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR208526 representing NM_001105768
Red=Cloning site Green=Tags(s)

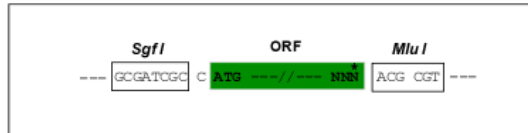
MAENHCELLPPAPSGLGAGLGGGLCRRCASAGIGALAQRPSGVSKWVRLNVGGTYFLTTRQTLCRDPKSFL
 YRLCQADPDLDSKDETGAYLIDRDPTYFGPVLNYLRHGKLVINRDLAEEGVLEEAEFYNITSLIKLVKD
 KIRERDSKTSQMPVKHVYRVLQCQEEELTQMVSTMSDGWKFEQLVSISSYNYGNEDQAEFLCVSKELH
 NTPYGGTSEPSEKAKILQERGSRM

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_001105768

ORF Size: 702 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_001105768.1](#), [NP_001099238.1](#)

RefSeq Size: 2473 bp

RefSeq ORF: 705 bp

Locus ID: 287109

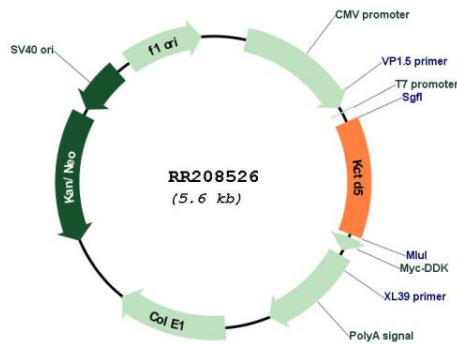
UniProt ID: [B5DEL1](#)

Cytogenetics: 10q12

MW: 26.2 kDa

Gene Summary: Its interaction with CUL3 suggests that it may act as a substrate adapter in some E3 ligase complex (By similarity). Does not affect the function of Kv channel Kv2.1/KCNB1, Kv1.2/KCNA2, Kv4.2/KCND2 and Kv3.4/KCNC4 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208526