

Product datasheet for **MR204825**

Kctd13 (NM_172747) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kctd13 (NM_172747) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kctd13
Synonyms: 1500003N18Rik; AV259508; P dip1; PDIP1alpha; Poldip1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204825 representing NM_172747
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGGCCGAGGCTCGGGCCCGCGCCGGCTGCGGCCGAATGCTTGGAGTCCCCTAGCCCCTCGAGTG
TGGAGCCTGGCTCCCCCTCGTACAGTCTGAAGCCCCTCACCCGAACAGCAAGTATGTGAAGCTGAACGT
GGGCGGCTCGTGCATTACACCACGCTGCGCACCCCTCACGGGCAGGACACCATGCTCAAGGCCATGTT
AGCGGCCGCTTGAAGTCTCACAGACGCGGGAGGTTGGGTGCTGATTGACCGGAGTGGCCGCCACTTTG
GCACAATTCTCAACTACCTGCGGGACGGGTCCGCTGCCACTGCCTGAGAGTGCCAGAGAATCGGGGAGCT
GCTAGGTGAAGCCGATACTACCTGGTCCAGGGCCTGATTGAAGACTGTCAGCTGGCGCTGCAGCAAAAA
AGGGAGAAGCTGTCGCCACTATGCCTCATCCCCACAGTGACATCACCCCGGAAGAGCAGCAGCTCCTGG
CCAGCACCTCCAAGCCTGTGGTGAAGCTTCTACACAACCGCAGTAACAACAAGTACTCTTACACCAGCAC
TTCAGATGACAACCTACTGAAGAATCGAGCTGTTTGACAACTAGCCCTGCGCTTCCATGGGCGGCTG
CTCTTCTCAAGGATGTCCTAGGAGATGAGATTTGCTGCTGGTCTTTCTACGGGCAGGGCCGAAAAATTG
CCGAGGTGTGCTGTACCTCCATAGTCTATGCTACGGAGAAGAAGCAGACCAAGGTGGAATTCCTGAGGC
TCGGATCTTTGAGGAGACTGAACATCTTAATTTATGAGAATCCCCTGGCCAGATCTCGCTCTCCTG
GAGGCCACAGGGGTGCAGCTGGAGTGGTGGGCAGGCCGAGGGGACGATGAAGAGAACCGAGAGCACC
GTGTCGGAGGATCACGTCCGCCCATATCACCCACGATGAGCGTCCCACGGCCAACAGATTGTCTT
CAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204825 representing NM_172747
 Red=Cloning site Green=Tags(s)

MSAEASGPAPAAAECLSPSPSSVEPGSPSYSLKPLTPNSKYVKLVGGSLHYTTLRTL TGQDTMLKAMF
 SGRVEVLTDAGGWVLIDRSGRHFGTILNLYLRDGSVPLPESARELGELLGEARYYL VQGLIEDCQLALQOK
 REKLSPLCLIPTVTSPREEQQLLASTSKPVVLLHNRSNNKYSYTSDDNLLKNIELFDKLALRFHGRL
 LFLKDVLDGEICCSWFYQGGRKIAEVCCSIVYATEKKQTKVEFPEARIFEETLNILIIYENSRGPD LALL
 EATGGAAGGGGAGRGDDEENREHRVRRIHVRRHI THDERPHGQQIVFKD

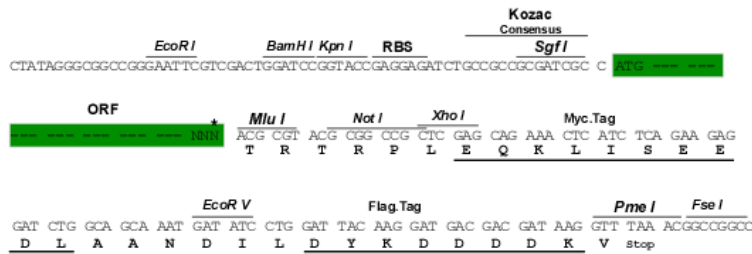
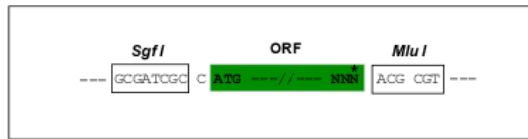
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172747

ORF Size: 987 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_172747.2](#), [NP_766335.1](#)

RefSeq Size: 1654 bp

RefSeq ORF: 990 bp

Locus ID: 233877

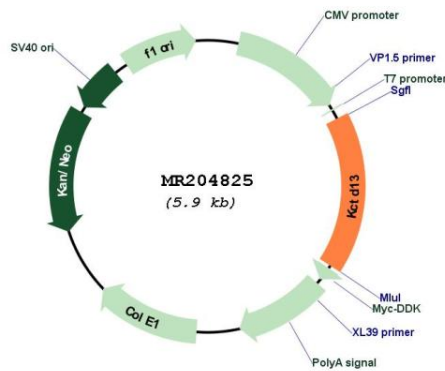
UniProt ID: [Q8BGV7](#)

Cytogenetics: 7 F3

MW: 36.9 kDa

Gene Summary: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for synaptic transmission (PubMed:29088697). The BCR(KCTD13) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome, thereby regulating the actin cytoskeleton and promoting synaptic transmission (PubMed:29088697).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204825